

Appendix A

Tank Farm Valve Box Valves, Piping, and Equipment

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Tank Farm Valve Box Valves, Piping, and Equipment

The following valve box table was constructed to provide information on valves, piping, equipment and instrumentation contained within each valve box. For clarity, the table is divided into seven descriptive columns. A description of each individual column from left to right is provided in the table below. Corresponding information contained within the valve box table columns, lines up horizontally across the page.

Information was obtained from drawings and INTEC personnel familiar with the TFF operations.

Column Number	Column Identifier	Description
1.	Valve Box Name	A unique number given to represent each valve box within the identification table.
2.	Reference Drawings	Provides drawing number where valve box information was obtained.
3.	Valves	Provides valve names contained within the valve box.
4.	Process Piping	Provides piping names contained within the valve box.
5.	Equipment	Provides equipment names contained within the valve box (i.e. jet pumps).
6.	Instrumentation	Provides instrumentation names contained within the valve box.
7.	Comments	Discusses additional information and provides pipeline origin and destination points.

Table A-1. Valve box valves, piping, and equipment.

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
A-2	A 2 057501053 881	3" PUV-WM-16	3 PUA-201			3" PUV-WM-16 WL-101 (WL-500) TO WM-181 (REMOVED)
		3" PUV-WM-17	3 PUA-1013			3" PUV-WM-17 WL-101 (WL-505) TO WM-184, -186 (REMOVED)
		3" PUV-WM-18	3 PUA-203			3" PUV-WM-18 WL-101 (WL-505) TO WM-181 (REMOVED)
		3" PUV-WM-19	3 PUA-1014			WL-101 (WL-500) TO TANK FARM
		DCV-WM-1				DCV-WM-1 ABANDONED IN PLACE
		DCV-WM-2				DCV-WM-2 ABANDONED IN PLACE
			1-PU-A-205			DVB-WM-PW-A2 FLOOR DRAIN TO 3 PWM-48048C
						Nothing is connected except drain lines
	A 5 057501 054600	3" PUV-WM-10	3 PUA-601			WM-182 INLET
		3" PUV-WM-11	3 PUA-602			WM-182 INLET
		3" PUV-WM-8	3 PUA-609			WM-183 INLET
		3" PUV-WM-9	3 PUA-610			WM-183 INLET
			1-PU-A-653			DVB-WM-PW-A5 TO CPP-783
A-2			1-PU-A-654			DVB-WM-PW-A6 TO DVB-WM-PW-A5
	A 6 053193 057501 137994 137997 057502 154108 378053 378054			JET-WM-582-1A		JET FROM VES-WM-182 TO DIV BOX DVB-WM-PW-A6
				JET-WM-582-1B		JET FROM VES-WM-181 TO DIV BOX DVB-WM-PW-A6
		DCV-WM-14				DECON—ABANDONED IN PLACE
		DCV-WM-15				DECON—ABANDONED IN PLACE
		3" PUV-WM-12	3 PUA-602			WM-178 TO WM-185, -187, -188, -189, and -190
		3" PUV-WM-13	3 PUA-1033			3 PUA-1033 MAIN TRANSFER BLOCK VALVE
		3" PUV-WM-6	3 PUA-601			WM-178 TO WM-182 and -183
		3" PUV-WM-7	3 PUA-602			WM-102 TO WM-182 and -183
			3-PU-A-1005			DVB-WM-PW-A6 TO 3" PUA-1030-B6 347SS SCH40 575' BD-17'9" FIRST 91'
						TITLEPIPE FIRST 225FT BECI TEL 1950 PRITCHARD
A-2			1-PU-A-654			DVB-WM-PW-A6 TO DVB-WM-PW-A5
	A 7 057502 095316 096156 055539 054110 500498 500505	DCV-WM-26				DECON ABANDONED IN PLACE
		DCV-WM-27				DECON ABANDONED IN PLACE
		3" PUV-WM-20	3 PUA-1013			WL-101 (WL-505) TO WM-186
		3" PUV-WM-21	3 PUA-630			WL-101 (WL-505) TO WM-184
		3" PUV-WM-22	3 PUA-631			WL-101 (WL-500) TO WM-184
		3" PUV-WM-23	3 PUA-1014			WL-101 (WL-500) TO TANK FARM
			3-PU-A-1087			DVB-WM-PW-A7 TO DVB-WM-PW-B1
			3-PU-A-1088			DVB-WM-PW-B1 TO DVB-WM-PW-A7
			3-PW-AR-151009			VES-WL-101 VIA JET-WL-500 and DVB-WL-PL-C37 TO 3-PUA-1014 TO DVB-
				LSH-WM-A7		WM-PW-A7
A-2	A 8 057502	6" CSV-WM-72	6-CSN-663			RESERVED FOR C. MCDONALD 6-17-97 - LEVEL SWITCH IN VALVE BOX
		6" TWV-WM-32	6 TWN-602			6" BLOCK VALVE
		4" VGV-WM-25	4 VGN-602			6" BLOCK VALVE
		12" VGV-WM-26	12 VPN-602			4" BLOCK VALVE
						12" BLOCK VALVE

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
B 1	057502	3" DCV-WM-72	3 PUA-1088			3 PUA-1013 DECON LINE
	057503	3" DCV-WM-73	3 PUA-1087			3 PUA-1014 DECON LINE
	055539	3" PUV-WM-70	3 PUA-1013			REMOVED—WL-101 (WL-505) TO WM-186
	096156	3" PUV-WM-71	3 PUA-1014			WL-101 (WL-500) TO WM-180, -182, -183, -185, -186, -187, -188, -190
	057501				LSH-WM-B1	RESERVED FOR C. MCDONALD 6-17-97 - LEVEL SWITCH IN VALVE
	137931					
	500505					
B 2	057502	3" PUV-WM-61	3" PUA-1030			WM-187, -188, -189, -190 INLET and OUTLET
	054109	3" PUV-WM-62	3" PUA-202			REMOVED—INTERM TO HIGH LEVEL CROSS TIE BLOCK VALVE
	057501	3" PUV-WM-63	3" PUA-1014			WM-181, -184 INLET and OUTLET BLOCK VALVE
	057502	3" PUV-WM-64	3" PUA-1036			3 PUA-1036 BLOCK VALVE
	096156	3" PUV-WM-65	3" PUA-202			INTERM TO HIGH LEVEL CROSS TIE BLOCK VALVE
		3" PUV-WM-66	3" PUA-1012			REMOVED—WM-186 INLET BLOCK VALVE
		3" PUV-WM-67	3" PUA-1040			WM-186 INLET BLOCK VALVE
		3" PUV-WM-68	3" PUA-1014			INTERM TO HIGH LEVEL CROSS TIE BLOCK VALVE
		3" PUV-WM-69	3" PUA-204			3 PUA-204 BLOCK VALVE
		1" DCV-WM-7	1 CA-1001			DECON LINE TO WM-186
			3-PU-A-1013			DVB-WM-PW-B1 TO 3-PUA-204 IN DVB-WM-PW-B2 TO VES-WM-18
B 3	057502	3" PUV-WM-55	3 PUA-1029			WM-178 TO WM-185
	054110	3" PUV-WM-56	3 PUA-208			WM-185 INLET BLOCK VALVE
	053193	3" PUV-WM-57	3 PUA-1030			3 PUA-1030 MAIN TRANSFER BLOCK VALVE
	057501	3" PUV-WM-58	3 PUA-1005			WM-178 TO WM-187, -188, -189, -190
	137994	3" PUV-WM-59	3 PUA-1014			WM-181 INLET and OUTLET BLOCK VALVE
	137997	3" PUV-WM-60	3 PUA-1014			WM-187, -188, -189, -190 INLET and OUTLET
		3" DCV-WM-8	3 PUA-1028			DECON LINE TO WM-185
				JET-WM-581-1A		JET FROM VES-WM-181 TO DIVERSION BOX DVB-WM-PW-B3 OR
				JET-WM-581-1B		RECYCLE
						JET FROM VES-WM-181 TO DIV BOX DVB-WM-PW-B3 OR RECYCLE
B 4	054108	3" DCV-WM-420	3-PUA-1030			GROUT FILLING VALVE
	057502		OFF ENCASEMENT			GROUT FILLING VALVE
	106140	3" DCV-WM-421	3 PUA-1030			REMOVED—TANK FARM TO CALCINER
	378053		3 PUA-1218			WM-187, -188, -189, -190, INLET and OUTLET VALVE
	378054	3" PUV-WM-74	3 PUA-1219			WM-179 TO WM-187, -188, -189 and -190
		3" PUV-WM-75	3 PUA-1005			WM-179 TO WCF
		3" PUV-WM-76	3-PU-A-204			3" PUA 1013 TO 3" PUA 1223 347SS SCH40 72' BD -14'2" CONCRETE PIPEWAY #6
B 5	378053	DCV-WM-9				DECON LINE ABANDONED IN PLACE
	057503	DCV-WM-10				DECON LINE ABANDONED IN PLACE
	378054	DCV-WM-11				DECON LINE ABANDONED IN PLACE
	377823	DCV-WM-12				DECON LINE ABANDONED IN PLACE
	057502	3" PUV-WM-81				ABANDONED IN PLACE
	106226	3" PUV-WM-82	3" PUA-1232			WM-103, -104, -105, and -106 TO HIGH LEVEL TANK BLOCK VALVE FLUOR

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
	057503 057850	3" PUV-WM-83			1961	ABANDONED IN PLACE
		3" PUV-WM-84	3" PUA-1233			
		3" PUV-WM-85	3" PUA-1222			WM-103, -104, -105, and -106 TO INTERM LEVEL TANK BLOCK VALV
		3" PUV-WM-86	3" PUA-1223			FLUOR 1961
				JET-WM-586-3A		3 PUA-1222 BLOCK VALVE
				JET-WM-586-3B		3 PUA-1223 BLOCK VALVE
				JET-WM-587-3A		JET FROM VES-WM-186 TO DIV BOX DVB-WM-PW-B5
				JET-WM-587-3B		JET FROM VES-WM-186 TO DIV BOX DVB-WM-PW-B5
						JET FROM VES-WM-187 TO DIV BOX DVB-WM-PW-B5
						JET FROM VES-WM-187 TO DIV BOX DVB-WM-PW-B5
B 6	055540 137931	3" DCV-WM-79	3 PUA-1101			3 PUA-1219 DECON LINE
		3" DCV-WM-80	3 PUA-1100			3 PUA-1218 DECON LINE
		3" PUV-WM-78	3 PUA-1005			WM-179 TO WCF
		3" PUV-WM-79	3 PUA-1101			DECON BLOCK VALVE TO 3 PUA-1005
		3" PUV-WM-80	3 PUA-1100			DECON BLOCK VALVE TO 3 PUA-1030
			3-PU-A-1215			GOES THROUGH DVB-WM-PW-B6 AND CAPPED ON EACH END
			3-PU-A-1216			GOES THROUGH DVB-WM-PW-B6 AND CAPPED ON EACH END
B 7	057503 055541 137951	1" DCV-WM-16				DECON VALVE TO PUV-WM-38
		1" DCV-WM-17				DECON VALVE TO PUV-WM-36
		3" PUV-WM-35	3 PUA-1233			WM-103 WM-104 TO INTER LEVEL TANKS
		3" PUV-WM-36	3 PUA-1233			DECON SOLUTION FOR 3 PUA-1233 BLOCK VALVE
		3" PUV-WM-37	3 PUA-1232			WM-103,-104,-105, and -106 TO HIGH LEVEL TANKS
		3" PUV-WM-38	3 PUA-1232			DECON SOLUTION FOR 3 PUA-1232 BLOCK VALVE
			1-PU-A-1234			DVB-WM-PW-B8 TO DVB-WM-PW-B7
B 8	053192 057500 137950 057503			JET-WM-513		JET FROM VES-WM-103 TO DIVERSION BOX DVB-WM-PW-B8 (LO)
				JET-WM-514		JET FROM VES-WM-104 TO DIVERSION BOX DVB-WM-PW-B8 (HI)
				JET-WM-515		JET FROM VES-WM-105 TO DIVERSION BOX DVB-WM-PW-B8 (LO)
				JET-WM-516		JET FROM VES-WM-105 TO DIVERSION BOX DVB-WM-PW-B8 (HI)
				JET-WM-517		JET FROM VES-WM-106 TO DIVERSION BOX DVB-WM-PW-B8 (LO)
				JET-WM-518		JET FROM VES-WM-106 TO DIVERSION BOX DVB-WM-PW-B8 (HI)
				JET-WM-519		JET FROM VES-WM-103 TO DIVERSION BOX DVB-WM-PW-B8 (HI)
				JET-WM-520		JET FROM VES-WM-104 TO DIVERSION BOX DVB-WM-PW-B8 (LO)
		1" DCV-WM-18				DECON VALVE TO WM-519
		1" DCV-WM-19				DECON VALVE TO WM-513
		1" DCV-WM-20				DECON VALVE TO WM-514
		1" DCV-WM-21				DECON VALVE TO WM-520
		1" DCV-WM-22				DECON VALVE TO WM-515
		1" DCV-WM-23				DECON VALVE TO WM-516
		1" DCV-WM-24				DECON VALVE TO WM-518
		1" DCV-WM-25				DECON VALVE TO WM-517
		3" PUV-WM-27	3 PUA-1233			WM-103 (WM-519) TO INTERMEDIATE LEVEL TANKS
		3" PUV-WM-28	3 PUA-1232			WM-103 (WM-513) TO HIGH LEVEL TANKS
		3" PUV-WM-29	3 PUA-1226			WM-104 (WM-514) TO HIGH LEVEL TANKS

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
		3" PUV-WM-30	3 PUA-1227			WM-104 (WM-520) TO INTERM LEVEL TANKS
		3" PUV-WM-31	3 PUA-1228			WM-105 (WM-515) TO INTERM LEVEL TANKS
		3" PUV-WM-32	3 PUA-1229			WM-105 (WM-516) TO HIGH LEVEL TANKS
		3" PUV-WM-33	3 PUA-1231			WM-106 (WM-518) TO INTERM LEVEL TANKS
		3" PUV-WM-34	3 PUA-1230			WM-106 (WM-518) TO HIGH LEVEL TANKS
			1-PU-A-1234			DVB-WM-PW-B8 TO DVB-WM-PW-B7
B 9	057503	3" PUV-WM-87	3" PUA-1089			WM-187 INLET BLOCK VALVE
	378036	3" PUV-WM-88	3" PUA-1090			WM-187 INLET BLOCK VALVE
	378824	3" PUV-WM-89	3" PUA-1090			WM-187 and -188 INLET BLOCK VALVE
	377369	3" PUV-WM-90	3 PUA-1220			WM-189 and -190 INLET and OUTLET BLOCK VALVE
	054128	3" PUV-WM-91	3" PUA-1221			WM-189 and -190 INLET BLOCK VALVE
	378053	3" PUV-WM-92	3" PUA-1089			WM-187 and -188 INLET BLOCK VALVE
	378054	3" PUV-WM-93	3" PUA-1203			WM-188 INLET BLOCK VALVE
		3" PUV-WM-94	3" PUA-1204			WM-188 INLET BLOCK VALVE
B 10	057503	1" DCV-WM-	1-DC-AR-152567			DECON VALVE
	174021	387	1-DC-AR-152568			DECON VALVE
	137946	1" DCV-WM-	3 PUA-1304			WM-189 INLET BLOCK VALVE
	174020	388	3 PUA-1303			WM-189 INLET BLOCK VALVE
	174022	3" PUV-WM-	3-PUA-1220			WM-189 and WM-190 INLET BLOCK VALVE
	175127	301	3 PUA-1220			3 PUA-1220 BLOCK VALVE
	175128	3" PUV-WM-	3 PUA-1221			3 PUA-1221 BLOCK VALVE
		302	3-PUA-1221			WM-189 and WM-190 INLET BLOCK VALVE
		3" PUV-WM-	3 PUA-1315			WM-190 INLET BLOCK VALVE
		303	3 PUA-1316			WM-190 INLET BLOCK VALVE
		3" PUV-WM-	1-PU-A-1325			DVB-WM-PW-B10 TO SUMP DRAIN
		304			CE-WM-B10	CONDUCTIVITY ELEMENT IN DVB-WM-PW-B10
		3" PUV-WM-			CIA-WM-B10	CONDUCTIVITY INDICATING ALARM ABOVE DVB-WM-PW-B10
		305				
		3" PUV-WM-				
		306				
		3" PUV-WM-				
		307				
		3" PUV-WM-				
		308				
B 11	057503			JET-WM-511-4		JET FROM DVB-WM-PW-B11
	137947	¾" DCV-WM-	1-PLA-104764			DECON SUPPLY TO BOX-B11
	174020	255	3/4-DC			DECON VALVE--REMOVED
	174022	¾" DCV-WM-				3 PUA-1223 DECON LINE
	137948	258				3 PUA-1222 DECON LINE
	137949	¾" DCV-WM-				3 PUA-1220 DECON LINE
	175127	259	3 PUA-1220			NWCF TO TANK FARM BLOCK VALVE
	175128	¾" DCV-WM-	3 PUA-1222			NWCF TO TANK FARM BLOCK VALVE
		260	3-PU-A-1221			BLOCK VALVE
		¾" DCV-WM-	1 PLA-104764			BOX-B11 SUMP JET (WM-511-4) TO NWCF
		261	1-PLA-104738			BOX-B11 SUMP JET TO STORAGE TANKS

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
		3" PUV-WM-320			CE-WM-B11	CONDUCTIVITY ELEMENT IN DVB-WM-PW-B11
		3" PUV-WM-322			CIA-WM-B11	CONDUCTIVITY INDICATING ALARM ABOVE DVB-WM-PW-B11
		3" PUV-WM-338				
		1" PLV-WM-62				
		1" PLV-WM-64				
C 1	057501 137929	1 1/2" HSV-WM-216	1 1/2" HSA-104716			STEAM TO WM-182 and WM-183 SUMP JETS
		1 1/2" HSV-WM-217	1 1/2" HSA-604			STEAM TO WM-183 SUMP JET (WM-533) TO WM-182
		1 1/2" HSV-WM-218	1 1/2" HSA-603			STEAM TO WM-182 SUMP JET (WM-530) TO WM-182
		1 1/2" HSV-WM-219	1 1/2" HSA-602			STEAM TO WM-182 SUMP JET (WM-531) TO WM-182
		1 1/2" HSV-WM-220	1 1/2" HSA-605			STEAM TO WM-183 SUMP JET (WM-534) TO WM-183
			1 1/2" HSA-104756			
C 2	137927	PUV-WM-115	2 PUA-1099			WM-182 (WM-582-1B) OUTLET BLOCK VALVE
		PUV-WM-116	2 PUA-1033			WM-182 (WM-582-1A) OUTLET BLOCK VALVE
C 3	057501 137925	3" PUV-WM-117	3 PUA-1033			WM-180 WM-181 OUTLET BLOCK VALVE
		3" PUV-WM-118	3 PUA-1034			WM-180 INLET BLOCK VALVE
		3" PUV-WM-119	3 PUA-1033			WM-180 WM-182 OUTLET BLOCK VALVE and WM-180 INLET BLOCK
			1-PL-A-104768			DVB-WM-PW-C3 TO 1-PLA-104767
C 4	057501 137925	2" PUV-WM-113	2 PUA-1097			WM-180 (WM-580-1A) OUTLET BLOCK VALVE
		2" PLV-WM-114	2 PUA-1032			WM-180 (WM-580-1B) OUTLET BLOCK VALVE
			1-PL-A-104767			DVB WM PW C4 TO DVB-WM-PW-C12
			2-PU-A-1097			JET-WM-580-1A TO DVB-WM-PW-C4
C 5	057501 133406 137927	1" PLV-WM-31	1-PSAD-4425			ISOLATION VALVE
		1" PLV-WM-32	1-PSAD-4426			ISOLATION VALVE
		1" PLV-WM-33	1-PSAD-4426			ISOLATION VALVE
		2" PUV-WM-121	2 PUA-1035			WM-183 (WM-582-1B) OUTLET BLOCK VALVE
		2" PUV-WM-122	2 PUA-1098			WM-183 (WM-583-1A) OUTLET BLOCK VALVE
			1-PL-A-104771			DVB-WM-PW-C5 TO 1-PLA-104772
C 6	057501 137929	1" HSV-WM-221	1 HSA-104721			STEAM TO WM-182 and WM-183 SUMP JETS - SOUTH SUMP
			1 HSA-104722			STEAM TO WM-183 SUMP JET (WM-583-4) TO WL-102
C 6	053193 057501	1" HSV-WM-222	1 HSA-104723			STEAM TO WM-182 SUMP JET (WM-582-4) TO WL-102
			1-1/4 PLA-104701			WM-182 SOUTH SUMP JET TO WL-102/133

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
	137994 137997 137991	1" HSV-WM-223 1 1/4" PLV-WM-1 1 1/4" PLV-WM-2	1-1/4 PLA-104702	JET-WM-583-1A JET-WM-583-1B JET-WM-582-4 JET-WM-583-4		WM-183 SOUTH SUMP JET TO WL-102/133 JET FROM VES-WM-183 SUMP TO DIV BOX DVB-WM-PW-C6 JET FROM VES-WM-183 SUMP TO DIV BOX DVB-WM-PW-C6 JET FROM VES-WM-182 SUMP TO DIVERSION BOX DVB-WM-PW-C6 JET FROM VES-WM-583 SUMP TO DIV BOX DVB-WM-PW-C6 DVB-WM-PW-C6 TO 1-PLA-104772
C 7	057501 137928	3" PUV-WM-120 3" PUV-WM-125	3 PUA-1033 3 PUA-1014 3-PU-A-1036 1-PL-A-104772			WM-180, 182, 183 OUTLET BLOCK VALVE and WM-180 INLET WM-181 INLET BLOCK VALVE 3" PUA 1014 B2 TO 3" PUA 1022 B5 347SS SCH40 78' BD-6'11" CONCRETE and SS PIPE DVB-WM-PW-C7 TO 1-PLA-104767
C 8	057501 137926	3" PUV-WM-127	3 RWC 1-PL-A-104769			COOLING WATER TO WL-102 (VALVE BLINDED INTACT) DVB-WM-PW-C8 TO 1-PLA-104767
C 9	137925 377713 377826 377096 057501	3/4" DCV-WM-415 1" DCV-WM-416 2" PUV-WM-123 2" PUV-WM-124	3/4-DC-AR-151993 1-DC-AR-151992 2" PUA-1096 2" PUA-1036 3" PUA-1036 1-PL-A-104775			DC SOLUTION TO 2-PUA-1036 and 2-PUA-1096 1-DC-AR-151992 TO CAP BY DVB-WM-PW-C9 DC SOLUTION TO 2-PUA-1036 and 2-PUA-1096 WM-181 (WM-581-1A) OUTLET BLOCK VALVE WM-181 (WM-581-1B) OUTLET BLOCK VALVE DVB-WM-PW-C9 TO 1-PLA-104767
C 10	057501 137937	3" PUV-WM-126	3 PLA-104703 1-PL-A-104774 1*1/2-PL-A-104701			WASTE TANKS TO SAMPLE CABINET (DVB-WM-PW-C12) TO WL-10 DVB-WM-PW-C10 TO 1-PLA-104767 1*1/4-PL-A-104701 TO DVB-WM-PW-C10
C 11	057501 137930 057501 137991 137994 137997 098372	1 1/4" PLV-WM-3 1 1/4" PLV-WM-4	1-1/4 PLA-104704 1-1/4 PLA-104705 1-PL-A-104777	JET-WM-580-4 JET-WM-581-4		WM-180 SUMP JET TP WL-102/133 WM-181 SUMP JET TO WL-102/133 JET FROM VES-WM-180 SUMP TO DIV BOX DVB-WM-PW-C11 JET FROM VES-WM-181 SUMP TO DIVERSION BOX DVB-WM-PW-C11 DVB-WM-PW-C11 TO DVB-WM-PW-C12
C 12	137937 057501 098372 177592 098372 177608 177609	3/4" DCV-WM-408 3/4" HAV-WM-66 1" HAV-WM-67 1/4" HAV-WM-68	3/4-PL-AR-155002 3/4 HAAM-110535 1-HANN-110536 1/4 HAAM 1/2 DCAM-110529 3 PLA-104710 3/4-PL-AR-155002			DECON STATION FOR 1*1/2-PLA-104710 AIR TO SAMPLE JET PI INLET FOR AIR TO C-12 SAMPLER SAMPLER DECON WASTE TRANSFER BLOCK VALVE ISOLATION TO DECON STATION FOR 3-PLA-104710

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
		½" DCV-WM-91	3/4-HS-AR-154995			TEMPORARY VALVE UNTIL COMPLETION OF DVB-WM-PW-C40-HEADER
		3" HY-WM-81	1-PL-AR-155001			BLOCK VALVE AT DVB-WM-
		¾" PLV-WM-232	1-HA-NN-110535			OUTLET FROM JET-WM-539
		PLV-WM-240	3/4-HS-AR-154995			CONTROL VALVE FOR HV-WM-230
		1" HV-WM-230	3 PLA-104703			WASTE TANKS TO SAMPLE CABINET (DVB-WM-PW-C12) TO WL-10
		HY-WM-230	1 PLAR-110527			STEAM SUPPLY TO JET-WM-539
		1" PCV-WM-5	1/2 PLAM-110533			SAMPLE BOX DRAIN TO C-12 SUMP
		¾" HV-WM-608	1/2 PLAR-110532			SAMPLE BOX DRAIN TO C-12 SUMP
		3" PUV-WM-126	3/4 PLAR-110531			SAMPLER BYPASS
		1" PLV-WM-66	1/2 PLAR-110532			SAMPLER BOTTLE INLET
		½" PLV-WM-69	1 PLAR-110527			SAMPLE JET RETURN
		½" PLV-WM-70	1/2 PLAM-110533			SAMPLER SUCTION
		¾" PLV-WM-71	1/2 LAAR-110534			SAMPLER FLOWMETER OUTLET
		½" PLV-WM-72	1/2 LAAR-110534	JET-WM-539		AIRLIFT CONTROL VALVE TO C-12 SAMPLER
		1" PLV-WM-75		JET-WM-612		CONTROL VALVE FOR HV-WM-81
		½" PLV-WM-76			LSH-WM-C12	STEAM JET IN DVB-WM-PW-C12 SUMP
		½" LAV-WM-10			ZS-WM-230-1	JET FOR WM-189 and WM-190 SAMPLER SYSTEM
		HY-WM-81			FI-WM-612	LEVEL MEASUREMENT FOR DVB-WM-PW-C12 SUMP
		3" HV-WM-81			ZI-WM-230	CLOSED POSITION SWITCH FOR HV-WM-230
					CT-WM-C12	FLOW INDICATOR FOR WM-189 WM-190 SAMPLER JET SYSTEM
					RE-WM-612	POSITION INDICATOR FOR HV-WM-230
					CE-WM-C12	CONDUCTIVITY TRANSMITTER FOR DVB-WM-PW-C12 SUMP
					ZI-WM-81	RADIATION ELEMENT ON SAMPLE SUMP
						CONDUCTIVITY ELEMENT FOR DVB-WM-PW-C12 SUMP
						POSITION INDICATOR FOR HV-WM-81
C 13	057502	¾" HSV-WM-210	3/4 HSA			HOSE CONNECTION BLOCK VALVE
	137935		1 HSN-104730			STEAM TO WM-185 AND -186 SUMP JETS
	137981	1" HSV-WM-230	1-1/2 HSA-1007			STEAM TO WM-185 NORTH SUMP JET (WM-585-2) TO WM-185
	137981		1-1/2 HSA-1006			STEAM TO WM-185 SOUTH SUMP JET (WM-585-1) TO WM-185
	057502	1 ½" HSV-WM-231	1 HSA-104733			STEAM TO WM-185 SOUTH SUMP JET (WM-585-4) TO WL-102
	057503		1 HSA-104734			STEAM TO WM-186 SOUTH SUMP JET (WM-586-4) TO WL-102
	117940	1 ½" HSV-WM-232	1-1/2 HSA-1004			STEAM TO WM-186 SOUTH SUMP JET (WM-586-1) TO WM-186
			1-1/2 HSA-1005			STEAM TO WM-186 NORTH SUMP JET (WM-586-2) TO WM-186
		1" HSV-WM-233	1-HSN-104730			BLOWDOWN VALVE FOR STR-WM-614
		1" HSV-WM-234	1 HAA-104762			TEMPORARY ISOLATION VALVE
		1 ½" HSV-WM-235		STR-WM-614		AIR TO BOX C-13 PURGER FOR WM-185 SUMP JETS
				STR-WM-615		STRAINER ON LINE 1-HSN-104730
		1 ½" HSV-WM-236	1-HS-A-104744			TEMPORARY STRAINER
			1-HS-A-104745			DVB-WM-PW-C13 TO JET-WM-587-4
						DVB-WM-PW-C13 TO JET-WM-525-4

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
		1 ½" HSV-WM-668	1-HS-A-104747			DVB-WM-PW-C13 TO JET-WM-524-4
		HSV-WM-669				
		1" HAV-WM-62				
		1 ½" 1-1/2 HAS-1007				
C 14	057502 137932 106210	2" PUV-WM-130	2 PUA-1038 2 PUA-1094			WM-185 (WM-585-3B) OUTLET BLOCK VALVE
		2" PUV-WM-131		JET-WM-585-3A JET-WM-585-3B		WM-185 (WM-585-3A) OUTLET BLOCK VALVE
			1-PL-A-104783			JET FROM VES-WM-185 TO DIV BOX DVB-WM-PW-C14
						JET FROM VES-WM-185 TO DIV BOX DVB-WM-PW-C14
						DVB-WM-PW-C14 TO 1-PLA-104773
C 15	057501 137926	3" PUV-WM-54	3 PUA-1030			3 PUA-1030 MAIN TRANSFER BLOCK VALVE
C 16	057502 137933 105528 106210 106226 137992	2" PUV-WM-132	2 PUA-1037 3 PUA-1037			VES-WM-184 (JET-WM-584-1A) OUTLET BLOCK VALVE
		3" PUV-WM-133	2 PUA-1093			VES-WM-184 INLET BLOCK VALVE
		2" PUV-WM-134	1-1/4 PLA-104706 1-1/4 PLA-104707 1-1/4 PLA-104708			VES-WM-184 (JET-WM-584-1B) OUTLET BLOCK VALVE
		1 ¼" PLV-WM-5		JET-WM-584-1A		VES-WM-184 NORTH SUMP JET-WM-584-4 TO VES-WL-102 / 133 BLOCK VALVE
		1 ¼" PLV-WM-6		JET-WM-584-1B		VES-WM-185 SOUTH SUMP JET-WM-584-4 TO VES-WL-102 / 133 BLOCK VALVE
		1 ¼" PLV-WM-7		JET-WM-584-4 JET-WM-585-4 JET-WM-586-4 JET-WM-518-4		VES-WM-186 SOUTH SUMP JET-WM-586-4 TO VES-WL-102 / 133 BLOCK VALVE
			1-PL-A-104784			JET FROM VES-WM-184 TO DIV BOX DVB-WM-PW-C16
						JET FROM VES-WM-184 TO DIV BOX DVB-WM-PW-C16
						JET FROM VES-WM-184 SUMP TO DIV BOX DVB-WM-PW-C16
						JET FROM VES-WM-185 SUMP TO DIV BOX DVB-WM-PW-C16
						JET FROM VES-WM-186 SUMP TO DIV BOX DVB-WM-PW-C16
						JET FROM DIVERSION BOX DVB-WM-PW-C18 TO DIVERSION BOX DVB-WM-PW-C16
						DVB-WM-PW-C16 TO 1-PLA-104773
C 17	057502 137935	1" HSV-WM-226	1 HSA-104726 1 HSA-607			STEAM TO WM-184 SUMP JETS
		1" HSV-WM-227	1 HSA-608			STEAM TO WM-184 SUMP JET (WM-537) TO WM-184
		1" HSV-WM-228	1 HSA-104729			STEAM TO WM-184 NORTH SUMP JET (WM-536) TO WM-184
		1" HSV-WM-229				STEAM TO WM-184 NORTH SUMP JET (WM-536) TO WM-184
C 18	057503 137934	1 ½" PUV-WM-172	1-1/2 PUA-1211 1-1/2 PUA-1205			WM-387 CONDENSATE TO WM-187
		1 ½" PUV-WM-173	1-1/4 PLA-104714			WM-387 CONDENSATE TO WM-188
		1 ¼" PLV-WM-		JET-WM-518-4		BOX C-18 SUMP JET WL-102/133
						JET FROM DIVERSION BOX DVB-WM-PW-C18 TO DIVERSION BOX DVB-WM-PW-C16

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
		12				
C 19	057502 137932	2" PUV-WM-135 3" PUV-WM-136	2 PUA-1095 3 PUA-1039 1-PL-A-104782			WM-186 (WM-586-3A) OUTLET BLOCK VALVE WM-186 (WM-586-3B) OUTLET BLOCK VALVE DVB-WM-PW-C19 TO 1-PLA-104773
C 20	057503 137939	CRV-WM-1 CRV-WM-2 CRV-WM-3 CRV-WM-5	8 CRN-1261 8 CWN-1261 8 CRN-1261 6 CRN-1261			COOLING WATER BYPASS TO WM-387 COOLING WATER RETURN FROM WM-387 COOLING WATER TO HE-WM-387 COOLING WATER RETURN FROM VES-WM-187 COILS
C 21	057503 137940	PUV-WM-96 PUV-WM-95 DCV-WM-382	2 PUA-1202 2 PUA-1092 3-PUA-1202 1-PL-A-104779			WM-187 (WM-587-3B) OUTLET BLOCK VALVE WM-187 WM-587-3A OUTLET BLOCK VALVE DECON VALVE IN DVB-WM-PW-C21 DVB-WM-PW-C21 TO 1-PLA-104773
C 22	057503 137940 057851	PUV-WM-98 PUV-WM-97 DCV-WM-383	2 PUA-1091 2 PUA-1201 3-PUA-1201	JET-WM-588-2A JET-WM-588-2B		WM-188 (WM-588-2A) OUTLET BLOCK VALVE WM-188 (WM-588-2B) OUTLET BLOCK VALVE DECON VALVE IN DVB-WM-PW-C22 JET FROM VES-WM-188 TO DIV BOX DVB-WM-PW-C22 JET FROM VES-WM-188 TO DIV BOX DVB-WM-PW-C22 DVB-WM-PW-C22 TO 1-PLA-104773
C 23	377713 377098 057503 137943 057850 137993	PLV-WM-79 PLV-WM-78 PLV-WM-9 PLV-WM-8 DCV-WM-02 DCV-WM-01 DCV-WM-C23-02 DCV-WM-C23-01 HSV-WM-255 HSV-WM-254 HSV-WM-253 HSV-WM-252 HSV-WM-251	1-1/4 PLA-104786 1 1/2" PLA-104715 1 1/2" PLA-104711 1 1/2" PLA-104709 1" PLA-104710 1 1/2" PLA-104786 1 HSA-104755 1 HSA-1202 1 HSA-1201 1 HSA-1303 1 HSA-1308 1*1/4-PL-A-104079			VES-WM-190 COLD SUMP JET-WM-590-4 TO VES-WL-102/133 VES-WM-189 COLD SUMP JET-WM-589-4 TO VES-WL-102/133 VES-WM-188 SOUTH SUMP JET-WM-588-4 TO VES-WL-102/133 VES-WM-187 SOUTH SUMP JET-WM-587-4 TO VES-WL-102/133 DECON BLOCK VALVE TO 1*1/2-PLA-104710 DECON INLET FOR 1*1/2-PLA-104710 DVB-WM-PW-C23 ISOLATION VALVE DVB-WM-PW-C23 BLOCK VALVE STEAM TO WM-188 SUMP JET (WM-588-4) TO WL-102 STEAM TO WM-188 NORTH SUMP JET (WM-588-1A) TO WM-188 STEAM TO WM-188 SOUTH SUMP JET (WM-588-1B) TO WM-188 STEAM TO WM-190 HOT SUMP JET (WM-590-2) TO WM-190 STEAM TO WM-190 COLD SUMP JET (WM-590-4) TO WL-102 JET-WM-587-4 TO DVB-WM-PW-C23 JET FROM VES-WM-187 SUMP TO DIV BOX DVB-WM-PW-C23 JET FROM DIVERSION BOX DVB-WM-PW-C24 TO DIVERSION BOX DVB-WM-PW-C23 JET FROM DIVERSION BOX DVB-WM-PW-C25 TO DIVERSION BOX DVB-WM-PW-C23 JET-WM-524-4 TO DVB-WM-PW-C23 DVB-WM-PW-C23 TO DVB-WM-PW-C12 DVB-WM-PW-C23 TO JET-WM-588-4 DVB-WM-PW-C23 TO HSV-WM-712
			1-PL-A-104780			
			1-PL-A-104713 1-PL-A-104773 1-HS-A-104755 1-HS-A-104756	JET-WM-587-4 JET-WM-524-4 JET-WM-525-4		

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
C 24	057503 137941 054137 137996 137999	PLV-WM-11 PUV-WM-310 PUV-WM-309 1" DCV-WM-384	1-1/4 PLA-104713 2 PUA-1301 2 PUA-1313 OFF 3-PUA-1301	 AL-WM-589-5 JET-WM-589-1 JET-WM-524-4		BOX-C24 SUMP JET TO WL-102/133 WM-189 (WM-589-5) OUTLET BLOCK VALVE WM-189 (WM-589-1) OUTLET BLOCK VALVE AIRLIFT FROM VES-WM-189 TO DIV BOX DVB-WM-PW-C24 JET FROM VES-WM-189 TO DIV BOX DVB-WM-PW-C24 JET FROM DIVERSION BOX DVB-WM-PW-C24 TO DIVERSION BOX DVB-WM-PW-C23 DECON VALVE IN DVB-WM-PW-C24
C 25	057503 137942 054137 137996 137999 057503 057851 098889 098890	PLV-WM-74 PLV-WM-73 PLV-WM-10 PUV-WM-312 PUV-WM-311 DCV-WM-385 1" DCV-WM-384	1 PLAR-110541 1 PLA-100537 1-1/4 PLA-104710 2 PUA-1302 2 PUA-1314 3-PUA-1302 3-PUA-1301 2 PUA-1313	 AL-WM-590-5 JET-WM-588-4 UH-WM-204 JET-WM-525-4		WM-190 WEST SUMP JET TO WL-102 WM-187 SOUTH SUMP JET TO WL-102 BOX-C25 SUMP JET TO WL-102/133 WM-190 (WM-590-5) OUTLET BLOCK VALVE WM-190 (WM-590-1) OUTLET BLOCK VALVE DECON VALVE IN DVB-WM-PW-C25 AIRLIFT FROM VES-WM-190 TO DIV BOX DVB-WM-PW-C25 JET FROM VES-WM-188 SUMP TO DIV BOX DVB-WM-PW-C25 UNIT HEATER IN DVB-WM-PW-C25 JET FROM DIVERSION BOX DVB-WM-PW-C25 TO DIVERSION BOX DVB-WM-PW-C23
C 27	137952 057499 161467 053191 055320 138016		1*1/2-PL-AR-110212 1/2-LA-AR-110694			OUTSIDE CAP TO 2-PL-AV-8603 TO 2-PI-A-104803 IN DVB-SAA-PL-C27 PV-SAA-1 TO DVB-SAA-PL-C27
C 28	137952 057499	1" PLV-YDV-22 2" PLV-YDW-125 2" PLV-YDB-121 2" PLV-YDB-124 1" PLV-YDB-122 2" PLV-YDB-125 2" HSV-YDB-	2 PLA-104803 2 PLA-104803 1 PLA-104851 2 PLA-104803 3/4 HSA-104805			BYPASS FR-YDB-102 INLET ISOLATION FR-YDB-102 SUMP JET-YDB-502 DISCHARGE OUTLET ISOLATION FR-YDB-102 STEAM TO SUMP JET-YDB-502

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
		123				
C 29	377714	2" PLV-YDA-23	2" PLA-110207			PROCESS CELLS TO WL-102/133
	057499	1" PLV-YDA-25	1 PLA-104858			JET-YDA-529-4 DISCHARGE BLOCK
	161467	2" PLV-YDA-22	2" PLA-110207			JET-WL-529-4 BLOCK TO WL SYSTEM
	053191	3" PLV-YDA-21	3" PLA-110206			CPP-601 BLOCK
			2" PWA-1560			DVB-C29 FROM 2"-PL-AR-104853 TO 3"-PL-AR-110206
			1 1/2" PWA-1560			
		PUV-YDA-326	1 1/2" PWA-1561			BLOCK TO TIE IN TO 2-PU-A-104853
			3" PLA-1102053"			
			PLA-110205			
			2" PUA-104854			
		PUV-YDA-325	2" PUA-104853			
C 30	057499	RCV-WM-196	1 VGAR-113542			SYPHON SYSTEM FILL POT DRAIN OR FILL
	053191	2" PUV-WM-	2 PUA-104853			PROCESS CELLS TO TANK FARM
	057499	336	2 PU-AR-113540			BLOCK TO VES-WM-196
	161467	2" PUV-WM-	2 PUA-104853			PROCESS CELLS TO TANK FARM
	057499	335	2 PUA-104854			BLOCK PROCESS CELLS TO TANK FARM
	161946	2" PUV-WM-	1 PUA-104855			SUMP JET-WM-530-4 DISCHARGE
	161949	328	3/4 HSA-104856			HIGH PRESSURE STEAM TO SUMP JET-WM-530-4
		2" PUV-WM-		JET-WM-530-4		SUMP JET
		327				
		2" PUV-WM-		VES-WM-196		6" DIA X 24" HIGH SURGE TANK IN VENT PIPING FOR LIQUID WASTE
		324				SYPHON TRANS
		3/4" HSV-WM-				
		258				
C 31	057499	PUV-YDA-334	2-PUA-104854			
	141669	PUV-YDA-333	2-PUA-104853			
	161467	PUV-YDA-332				
		PUV-YDA-331				
		PUV-YDA-330				
		PUV-YDA-329				
C 32	094227	HY-WM-39				CONTROL VALVE FOR HV-WM-39
	177606	HY-WM-38				CONTROL VALVE FOR HV-WM-38
	177605	HY-WM-37				CONTROL VALVE FOR HV-WM-37
	094227	HY-WM-36				CONTROL VALVE FOR HV-WM-36
	177593	3/4" HV-WM-	3/4-HS-AR-154997			STEAM SUPPLY TO JET-WM-540
	177594	609	1-PL-AR-155003			BLOCK VALVE FROM JET-WM-540 TO 3-PL-AR-113800
	177579	1" HV-WM-231	3-PLA-110206			
	057499	HV-WM-230	3-PL-AR-155563			ISOLATION VALVE
	094227	3" PLV-WM-247	3-PL-AR-155565			ISOLATION VALVE
	177593	3" PLV-WM-246	3/4-PL-AR-155004			ISOLATION VALVE TO DECON STATION TO HV-WM-36
		3/4" PLV-WM-	3/4-PL-AR-155005			ISOLATION TO DECON STATION TO HV-WM-37
		234	3-PLA-110206			VES-WG-100 VES-WG-101 TO VES-WL-133

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
		¾" PLV-WM-233	3-PLA-110205	JET-WM-540		VES-WG-100 VES-WG-101 TO VES-WL-133 BLOCK VALVE
		3" HV-WM-39	3 PWL-3029C			3-PL-AR-113801 TO CAPPED IN DVB-WM-PW-C32 W/ DRAIN
		3" HV-WM-38	3 PWL-3028C			3-PL-AR-113800 TO CAPPED IN DVB-WM-PW-C32 W/DRAIN
		3" HV-WM-37	3/4-PL-AR-155004			BLOCK VALVE ON DECON STATION FOR HV-WM-36
		3" HV-WM-36	3/4-PL-AR-155005			BLOCK VALVE ON DECON STATION FOR HV-WM-37
		¾" DCV-WM-410				STEAM JET IN DVB-WM-PW-C32 SUMP
		¾" DCV-WM-409	3-PL-AR-113800			3-PLA-110205 THRU DVB-WM-PW-C32 TO 6-PL-AR-113802
			3-PL-AR-113801			3-PLA-110206 THRU DVB-WM-PW-C32 TO 6-PL-AR-113802
			1/2-HA-AR-154996			1-HA-NN-110536 ON E SIDE OF 604 TO DVB-WM-PW-C12, DVB-WM-PW-C32, and DVB-WL-PL-C37
					LSH-WM-C32	DVB-WM-PW-C32 SUMP LEVEL MEASUREMENT
					ZS-WM-231-1	CLOSED POSITION SWITCH FOR HV-WM-231
					ZS-WM-231-2	OPEN POSITION SWITCH FOR HV-WM-231
					ZI-WM-231	OPEN POSITION SWITCH FOR HV-WM-231
					CT-WM-C32	POSITION INDICATOR FOR HV-WM-231
					ZS-WM-36-1	CONDUCTIVITY TRANSMITTER FROM DVB-WM-PW-C32 SUMP
					ZS-WM-36-2	CLOSED POSITION SWITCH FOR HV-WM-36
					ZS-WM-37-1	OPEN POSITION SWITCH FOR HV-WM-36
					ZS-WM-37-2	CLOSED POSITION SWITCH FOR HV-WM-37
					ZS-WM-38-1	OPEN POSITION SWITCH FOR HV-WM-37
					ZS-WM-38-2	CLOSED POSITION SWITCH FOR HV-WM-38
					ZS-WM-39-1	OPEN POSITION SWITCH FOR HV-WM-38
					ZS-WM-39-2	OPEN POSITION SWITCH FOR HV-WM-39
					LE-WM-C32	CLOSED POSITION SWITCH FOR HV-WM-39
					CE-WM-C32	LEVEL ELEMENT IN DVB-WM-PW-C32 SUMP
					LAH-WM-C32	CONDUCTIVITY ELEMENT IN DVB-WM-C32 SUMP
					LAH-WL-C37	SUMP LEVEL HIGH ALARM DVB-WM-PW-C32
					ZI-WM-36	
					ZI-WM-37	POSITION INDICATOR FOR HV-WM-36
					ZI-WM-38	POSITION INDICATOR FOR HV-WM-37
						POSITION INDICATOR FOR HV-WM-38
C 33	057499	1 ½" PLV-YDA-33	1*1/2-PLA-776			CLOSED POSITION SWITCH FOR HV-WM-231
C 37	095316	HV-WL-607	3/4-HS-NN-154998			ISOLATION VALVE TO JET-WL-541
	096156	HV-WL-235	1-PL-AR-154999			JET-WL-541 OUTLET
	177590	HV-WL-187	3-PL-AR-113806			TANK FARM NWCF and WCF DIVERSION TO VES-WL-132
	177602	HY-WL-235				CONTROL VALVE FOR HV-WL-235
	177601	HY-WL-187				CONTROL VALVE FOR HV-WL-187
	378135	PLV-WL-243	1*1/2-PL-AR-3019			ISOLATION FROM 1*1/2-PWM-3019Y
	177579	PLV-WL-242	1*1/2-PL-AR-20028			ISOLATION FROM 1*1/2-PWM-20028Y
	378140	PLV-WL-237	2-PL-AR-113803			ISOLATION
		PLV-WL-216	1-1/2 PLAR-113804			VES-WL-133 JET DISCHARGE DIVERSION
		1 ½" PLV-WL-186	1-1/2 PLAR-113808			DECON STATION ISOLATION VALVE
			1-HS-AR-154995			VES-WL-132 JET DISCHARGE DIVERSION

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
		1 1/2" PLV-WL-185	1-PW-AR-153535			
		1" HSV-WL-631	1-PW-AR-153535			ISOLATION TO VES-WL-101
		1" HSV-WL-630	3-PW-AR-151009			ISOLATION TO VES-WL-101
		1" PUV-WM-143	3-PU-AR-151822			ISOLATION FROM JET-WL-505 VES-WL-101
		1" PUV-WM-142	3-PU-AR-151823			ISOLATION TO VES-WL-111—FUTURE
		3" PUV-WM-141		JET-WL-541		ISOLATION TO VES-WL-111—FUTURE
		3" PUV-WM-140	3/4-PL-AR-155000			STEAM JET IN DVB-WM-PL-C37 SUMP
		3" PUV-WM-139	2-PL-AR-133808			LINE DECON STATION SHUTOFF
		3/4" DCV-WL-40	3-PL-A-104710			RESERVED FOR M. CHRISTENSEN 3-22-95
		DCV-WL-40	3-P-Y-2401Y			LINE DECON STATION SHUTOFF
		DCV-WM-414	3-P-WM-48048C			1*1/2-PL-A-104710 IN DVB-WM-PW-C12 TO 3-PL-A-101111 IN DVB-WL-PL-C37
		DCV-WL-411	3/4-DC-AR-113805			1*1/2-PL-AR-113808 NEAR DVB-WL-PL-C37 TO VES-WL-101 VIA 3-P-Y-2403Y
			3-PL-A-10111			FROM TANK FARM TO DVB-WL-PL-C37, and CAPPED IN DVB-WL-PL-C37
			1-PL-A-104776			TO VES-WL-102- ABANDONED
			1*1/2-PL-AR-20028			FROM CAPPED 1*1/2-PL-AR-113804 TO CAPPED END (ABANDONED)
					LSH-WL-C37	WCF TO 3-PL-AR-113806 IN DVB-WL-PL-C37
					ZI-WL-187	CAPPED IN DVB-WM-PW-C12 TO CAPPED IN DVB-WL-PL-C37
					ZI-WL-235	(ABANDONED)
					ZS-WL-235-1	1*1/2-P-WM-20028Y TO 3-PLA-104710
					ZS-WL-235-2	LEVEL MEASUREMENT FOR DVB-WL-PL-C37
					CT-WL-C37	POSITION INDICATOR FOR HV-WL-187
					CE-WL-C37	POSITION INDICATOR FOR HV-WL-235
					ZS-WL-187-1	CLOSED POSITION SWITCH FOR HV-WL-235
					ZS-WL-187-2	OPEN POSITION SWITCH FOR HV-WL-235
						CONDUCTIVITY TRANSMITTER FROM DVB-WL-PL-C37
						CONDUCTIVITY ELEMENT IN DVB-WL-PL-C37
						CLOSED POSITION SWITCH FOR HV-WL-187
						OPEN POSITION SWITCH FOR HV-WL-187
C 38	377714	2" PLV-WL-197	2" PUA-1008			PUMP-WL-228 and WL-229 SUCTION SHUTOFF VES-WL-133
	096156	2" PLV-WL-191	2" PLA-113809			P-WL-228 and P-WL-229 SUCTION SHUTOFF VES-WL-133
	057498	2" PLV-WL-192	2" PLA-113811			PUMP-WL-228 and WL-229 DISCHARGE P-WL-228 and P-WL-229 DISCHARGE
		2" PLV-WL-190	2 PLAR-113810			SHUTOFF RECIRCULATION
		2" PLV-WL-189	2-PL-AR-113822			P-WL-228 and P-WL-229 RECIRCULATION SHUTOFF
		3/4" DCV-WL-419	2-PS-A-100587			ISOLATION VALVE
		3/4" DCV-WL-418	3/4-DC-AR-151122			ISOLATION VALVE
		1" DCV-WL-417	3/4-DC-AR-151121			ON/OFF VALVE
		3/4" DCV-WL-411	1-DC-AR-151120			FILL CAP TO 3/4-DC-AR-151122
			3-PU-A-1008			FROM VES-WL-102 TO DVB-WL-PL-C38
C 39			2"-PUAR-104854			From DVB-C-39 to DVB-WM-PW-C30

Valve Box	Reference Drawings	Valves	Process Piping	Equipment	Instrumentation	Comments
			2"-PUAR-104853			From DVB-C-39 to DVB-WM-PW-C30
			3" PLAR-110205			From DVB-C-39 to DVB-WM-PL-C32
			3" PLAR-110206			From DVB-C-39 to DVB-WM-PL-C32
						Pipe information was obtained through Electronic Document Control.

Appendix B

Valve Box Dimensional Information

Appendix B

Valve Box Dimensional Information

The following table contains valve box dimensional information. For clarity, the table is divided into several descriptive columns. A description of each individual column from left to right is provided in the table below.

Information was obtained from drawings and INTEC personnel familiar with the TFF operations.

Column Number	Column Identifier	Description
1.	Valve Box Name	A unique number given to represent each valve box within the identification table.
2.	Reference Drawings	Provides drawing number where valve box information was obtained.
3.	Length	Longest valve box side dimension.
4.	Width	Shortest valve box side dimension.
5.	Height	Valve box top to bottom outside height.
6.	Wall Thickness	Average valve box wall thickness.
7.	Top Thickness	Valve box Ceiling thickness.
8.	Access Opening Size	Valve box access opening size.
9.	Portion Above Grade	Portion of valve box that extends above grade
10.	Valve Box Location	Valve box location with respect to underground storage tanks.
11.	Comments	Discusses additional valve box dimensional information.

Table B-1. Valve box dimensional information.

Valve Box Name	Reference Drawings	Length	Width	Height	Wall Thick	Top Thick	Access Opening Size	Portion Above Grade	Valve Box Location	Comments
A 2	053881 057501	9'- 7"	6'- 1"	See comments	8"	8"	30" dia.	3"	60 ft S.E of VES-WM-181	Valve box is "L" shaped with 6 sides 9'- 7" x 6'- 1" x 4'- 7" x 5'- 0 ½" x 1'- 6" x 4'- 6 ½" No piping is connected within the valve box except drain lines. Unable to determine exact height from drawings. Height is estimated to be 11 ft to 16 ft high. No access opening, the entire valve box top is removable for access.
A 5	377344 054600	5'- 5"	4'- 5"	9'- 10"	8"	12"	See comments	12"	45 ft SOUTH of VES-WM-183	
A 6	105595 377344 054108 057501	7'- 4"	6'- 0"	12'-0" approx.	8"	3"	2'- 6" x 2'- 10"	21 ½"	60 ft S.E of VES-WM-183	
A 7	057502 054110 500498	8'- 6	7'- 0"	7'- 0"	8"	6"	2'- 8 ½" x 2-3"		50 ft south of VES-WM-184	Valve box is "L" shaped with 6 sides 8'- 6" x 7'- 0" x 6'- 5" x 4'- 1" x 2'- 1" x 2'- 11"
A 8									70 ft N.E of VES-WM-183	Unable to acquire valve box information.
B 1	055539 137931	13'- 0"	7'- 0"	9'- 7"	6"	7"	2'- 6" x 2'- 6"	1'- 11"	80 ft WEST of CPP-659	
B 2	377361 054109 106128 057502 057501	16'- 3 ½"	7'- 6"	13'- 1"	8"	3"	2'- 6" x 2'- 10"	18"	55 ft SOUTH of VES-WM-186	
B 3	377361 054110	8'- 6"	5'-11"	10'- 9"	8"	3"	2'- 6" x 2'- 10"	18"	45 ft SOUTH of VES-WM-185	

Table B-1. (continued).

Valve Box Name	Reference Drawings	Length	Width	Height	Wall Thick	Top Thick	Access Opening Size	Portion Above Grade	Valve Box Location	Comments
B 4	054108 377365 057502	7'- 1"	5'- 5"	16'-0" approx.	8"	3"	2'- 6" x 2'- 10"	18"	50 ft N.W. of VES-WM-188	
B 5	053881 057503 106251 377365 377823	9'- 3 9/16"	8'- 3 1/8"	18'- 0" approx.	8"	3"	2'- 6" x 2'- 10"	12"	60 ft N.W. of VES-WM-188	
B 6	055540 137931	11'- 4"	6'- 4"	15'- 8 " approx.	6"	8"	2'- 6" x 2'- 6"	20"	5 ft SOUTH of CPP-659	
B 7	055541 137951	11'- 4"	6'- 4'	13'- 10" approx.	6"	8."	2'- 6" x 2'- 6"		100 ft N.E. of VES-WM-186	
B 8	137950 057503	9'- 8"	7'- 3"	12'- 10" approx.	6"	6"	2'- 6" x 2'- 6"	12"		Identified on underground drawings as a man hole MAH
B 9	377369 054128	9'- 7 13/16"	6'- 4 9/16"	19'- 7 ½ approx.	8"	3"	Removable top plate	18"	40 ft N.W. of VES-WM-188	
B 10	055543 057503	9'- 3"	4'- 11"	19'- 0" approx.	6"	6"	2'- 6" x 2'- 6"	12"	40 ft N.W. of VES-WM-190	
B 11	137947 137948 137949	13'- 6"	12'- 3"	18'- 0" approx.	18"	12"		18"	45 ft N.E of VES-WM-190	
C 1	137929 057501	7'- 0"	6'- 0"	6'- 6"	6"	6"	2'- 6" x 2'- 6"	12"	35 ft EAST of VES-WM-182	
C 2	137927 057501 377095	6'- 11 ¼"	6'- 0 ½"	5'- 6"	6"	3"	2'- 6" x 2'- 10"	12"	15 ft S.W of VES-WM-182	

Table B-1. (continued).

Valve Box Name	Reference Drawings	Length	Width	Height	Wall Thick	Top Thick	Access Opening Size	Portion Above Grade	Valve Box Location	Comments
C 3	137925	7'-0"	6'-0"	6'-6"	6"	3"	Removable top plate	12"	60 ft S.E. of VES-WM-182	
	057501									
	138049									
	377095									
C 4	137925	7'-0"	6'-0"	5'-9"	6"	3"	Removable top plate	12"	35 ft N.W. of VES-WM-180	
	057501									
	138049									
	377095									
C 5	137927	7'-0"	6'-0"	6'-6"	6"	3"	2'-6" x 2'-10"	12"	15 ft S.E. of VES-WM-183	
	377095									
C 6	137929	7'-3"	5'-0"	7'-6"	6"	6"	2'-6" x 2'-6"	12"	45 ft S.W. of VES-WM-183	
	057501									
C 7	137928	11'-4"	6'-4"	7'-5"	8"	3"	2'-6" x 2'-10"		50 ft N.E. of VES-WM-181	
	057501									
	377096									
C 8	137926	6'-9"	4'-9"	6'-3" (5'-3 1/2")	6"	6"	2'-6" x 2'-6"	12"	50 ft N.E. of VES-WM-181	Valve box has a 1-foot sloping floor.
C 9	137925	7'-0"	6'-0"	5'-9"	6"	3"	2'-6" x 2'-10"	12"	30 ft N.W. of VES-WM-181	
	057501									
	377826									
	377713									
	138049									
	377096									

Table B-1. (continued).

Valve Box Name	Reference Drawings	Length	Width	Height	Wall Thick	Top Thick	Access Opening Size	Portion Above Grade	Valve Box Location	Comments
C 10	137937 057501	7'- 0"	6'- 0"	10'- 7"	6"	6"	2'- 6" x 2'- 6"	12"	45 ft N.W. of VES-WM-181	
C 11	1379930	7'- 0"	6'- 0"	10'- 7"	6"	6"	2'- 6" x 2'- 6"	12"	30 ft S.W. of VES-WM-181	
C 12	138049 137937	7'- 0"	6'- 0"	13'- 1"	6"	6"	2'- 6" x 2'- 6"	12"	35 ft S.E. of VES-WM-181	
C 13	137935	7'- 0"	6'- 0"	6'- 6"	6"	6"	2'- 6" x 2'- 6"	12"	40 ft N.W. of VES-WM-186	
C 14	377826 377096 137932	8'- 0"	6'- 0"	8'- 2"	6"	3"	2'- 6" x 2'- 10"		30 ft SOUTH of VES-WM-185	
C 15	377826 137926 377096	7'- 3 ½"	7'- 0"	11'- 9"	6"	3"	Removable top plate		55 ft S.W. of VES-WM-185	
C 16	377098 137933	9'- 6 ¾"	7'- 1 7/16"	7'- 6"	6"	3"	Removable top plate		30 ft NORTH of VES-WM-185	
C 17	137935	7'- 0"	6'- 0"	7'- 8"	6"	6"	2'- 6" x 2'- 6"	12"	40 ft N.W. of VES-WM-184	
C 18	137934	7'- 0"	6'- 0"	10'- 9 ¾"	6"	6"	2'- 6" x 2'- 6"	12"	55 ft N.E. of VES-WM-186	
C 19	137932 377098	7'- 10 9/16"	6'- 0 ¾"	8'- 2"	6"	3"	Removable top plate	12"	30 ft SOUTH of VES-WM-186	
C 20	137939	8'- 0"	6'- 0"	9'- 6"	6"	6"	2'- 6" x 2'- 6"	9"	60 ft N.E. of VES-WM-186	

Table B-1. (continued).

Valve Box Name	Reference Drawings	Length	Width	Height	Wall Thick	Top Thick	Access Opening Size	Portion Above Grade	Valve Box Location	Comments
C 21	137940	7'- 6"	6'- 0"	5'- 3"	6"	6"	2'- 6" x 2'- 6"	12"	20 ft S.W. of VES-WM-187	
C 22	137940	7'- 6"	6'- 0"	5'- 3"	6"	6"	2'- 6" x 2'- 6"	12"	20 ft N.W. of VES-WM-188	
C 23	377713 137943 377098	8'- 0"	7'- 0"	6'- 6"	6"	3"	2'- 6" x 2'- 10"		20 ft N.E. of VES-WM-188	
C 24	137941	12'- 6"	6'- 0"	5'- 10"	6"	6"	2'- 6" x 2'- 6"	12"	25 ft S.W. of VES-WM-189	
C 25	137942	12'- 6"	6'- 0"	5'- 10"	6"	6"	2'- 6" x 2'- 6"	12"	20 ft N.W. of VES-WM-190	
C 27	137952	8'- 6"	6'- 6"	7'- 6"	6"	6"	2'- 6" x 2'- 10"	6"	West of fast	
C 28	137952 377098	7'- 0"	6'- 6"	10'- 2 ½"	6"	3"	2'- 6" x 2'- 10"	6"	East of 641	
C 29	377097 161014	9'- 4"	6'- 4"	18'- 10"	8"	3"	Removable top plate	6"	East of 604	
C 30	141674 377097	9'- 8"	6'- 8"	29'-0" approx.	10"	3"	2'- 6" x 2'- 10"	12"	85 ft S.E. of VES-WM-180	
C 31	141673 377097	9'- 4"	6'- 4"	16'-3"	10"	3"	2'- 6" x 2'- 10"	8"	East of 604	
C 32	161485 161484 161483	9' -6"	8' -3"	32' -4"	10"	12"	2'- 6" x 2'- 6"		100 ft SOUTH of VES-WM-	

Table B-1. (continued).

Valve Box Name	Reference Drawings	Length	Width	Height	Wall Thick	Top Thick	Access Opening Size	Portion Above Grade	Valve Box Location	Comments
	177579								181	
C 37	378140 177579 378042	10'-6"	8'-0"		12"	12"	2'-6" X 2'-6"		75 ft S.E of VES-WM-181	
C 38		10'- 3"	7'- 0"						135 ft S.E. of VES-WM-181	Information was obtained through Electronic Documentation Control.
C 39									115 ft S.W. of VES-WM-180	Unable to acquire valve box information.

Appendix C

**Identification Table of Tank Farm
Process Waste Pipelines**

Appendix C

Identification Table of Tank Farm Process Waste Pipelines

Tank Farm process waste pipelines are identified in Table C-1. Cooling, instrumentation, ventilation, and decontamination pipelines were not included in the table. For clarity, the table is divided into several descriptive columns. A description of each individual column from left to right is as follows:

Column Number	Column Identifier	Description
1.	Item Number	A unique number given to represent each pipeline within the identification table.
2.	Identification Number	Provides the pipeline names as called out in drawings.
3.	Description	Provides descriptive pipeline use information.
4.	Origin and Termination	Describes the location where each pipe begins and where each line ends. Includes reference drawings.
5.	Reference Drawings	Provides reference drawing numbers followed by grid location.
6.	Secondary Containment	Estimated secondary containment type.
7.	Pipeline Material	Identifies material pipeline was made from.
8.	Comments	Discusses additional pipeline information.

Table C-1. Tank Farm process waste pipelines.

1	1 1/2" PWM-28113Y	Carries process waste from WM-181 Vault (CPP-781) sump to WM-180	VES-WM-181 vault (CPP-781) sump	057501-E4	VES-WM-180	057501-F7	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
2	1 1/2" PWM-3017Y	Carries process waste from an above grade hose connection to WM-180	Above Grade Hose Connection	057501-F7	VES-WM-180	057501-F7	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing. 057501 lists 1 1/2" PWM-3017Y and 1 1/2" PWM-20026Y together on the same line. The origin is unclear in drawing but seems to imply above grade piping.
3	1 1/2" PWM-20026Y	Carries process waste from above grade hose connection to WM-180	Above Grade Hose Connection	057501-F7	VES-WM-180	057501-F7	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing. 057501 lists 1 1/2" PWM-3017Y and 1 1/2" PWM-20026Y together on the same line. The drawing does not clearly define the origin, but implies above grade piping.
4	1 1/2" PWM-3019Y	Carries process waste from above grade hose connection to WM-180	Above Grade Hose Connection	057501-F7	VES-WM-180	057501-F7	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing. 057501 lists 1 1/2" PWM-3019Y together on the same line. The drawing does not clearly define the origin, but implies above grade piping.
5	1 1/2" PWM-20028Y	Carries process waste from above grade hose connection to WM-180	Above Grade Hose Connection	057501-F7	VES-WM-180	057501-F7	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing. 057501 lists 1 1/2" PWM-3019Y together on the same line. The origin is unclear in drawing but seems to imply above grade piping.
6	2" PUA-1097	Carries process waste from WM-180 to Valve Box C4	Jet-WM-580-1A, inside VES-WM-180	057501-F7	DVB-WM-PW-C4, Valve PUV-WM-113	057501-F7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
7	3" PUA-1032	Carries process waste from Valve Box C4 to 3" PUA-1033 (item 70)	DVB-WM-PW-C4, Valve PUV-WM-113 and 114	057501-F7	3" PUA-1033	057501-E6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste from Valve Box C4 routes into Valve Box C3
8	3" PUA-1034	Carries waste from Valve Box C3 to reducer leading to 4" PWM-28004Y (item 9)	DVB-WM-PW-C3, Valve PUV-WM-118	057501-E6	4" PWM-28004Y	057501-E7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
9	4" PWM-28004Y	Carries process waste from pipeline 3" PUA-1034 (item 8) to WM-180	3" PUA-1034 reducer	057501-E7	VES-WM-180	057501-E7	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste travels through an inverted pipe reducer, enlarging before entering WM-180.
10	2" PUA-1032	Carries process waste from WM-180 to Valve Box C4	Jet-WM-580-1B, inside VES-WM-180	057501-F7	DVB-WM-PW-C4, Valve PUV-WM-114	057501-F7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	

Table C-1. (continued).

11	1 1/2" PLA-104704	Carries process waste from WM-180 vault sump to Valve Box C11	Jet 580-4 inside VES-WM-180 vault sump	057501-E7	DVB-WM-PW-C11, Valve PUV-WM-3	057501-G6	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
12	1 1/2" PLA-104705	Carries process waste from Valve Box C11 to Valve Box C12	DVB-WM-PW-C1, Valve PUV-WM-3 and 4	057501-G6	DVB-WM-PW-C12, In Line Sample Sump or pipe reducer	057501-E1	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
13	1 1/4" PLA-104705	Carries process waste from WM-181 sump to Valve Box C11	VES-WM-181 vault sump, Jet 581-4	057501-E4	DVB-WM-PW-C11, Valve PUV-WM-4	057501-E6	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
14	1 1/2 PWM-28001Y	Carries process waste from WM-180 sump to WM-181	VES-WM-180 vault sump, Jet 509	057501-E6	VES-WM-181	057501-E4	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
15	3" PUA-201	Abandoned Line, carried process waste from Junction Box-2A to WM-181. The original pipe origin point is unknown.	Junction Box-2A	057501-G6	VES-WM-181	057501-E3	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This was once a process waste transfer line. The original pipe origin point is unknown
16	3" PUA-203	Carries process waste or decontamination fluid from Junction Box-2B to WM-181	Junction Box-2B	057501-F4	VES-WM-181	057501-E3	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	It is unclear in dwg. 057501 if this is a decontamination line or a process waste line. This confusion is due to pipeline 1" DC-AR-157127 located just outside Junction Box-2B connecting to 3" PUA-203..
17	2" PUA-1096	Carries process waste from WM-181 to Valve Box C9	VES-WM-181, Jet 581-1A	057501-E3	DVB-WM-PW-C9, Valve PUV-WM-123	057501-F3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
18	2" PUA-1036	Carries process waste from WM-181 to Valve Box C9	VES-WM-181, Jet 581-1B	057501-E3	DVB-WM-PW-C9, Valve PUV-WM-124	057501-F3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
19	3" PUA-1036	Carries process waste from Valve Box C9 to Valve Box C7.	DVB-WM-C9, PUV-WM-123 and PUV-WM-124	057501-F3	DVB-WM-PW-C7, Valve PUV-WM-125	057501-E3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Two pipelines with the same name are given (items 19, 20). These pipelines are not connected and are called out on different drawings and different locations.

Item 19: pipelines 3" PLA-104703 (item 97, leading to Valve Box C10) and 3" PLA-100163 (item 22, abandoned in place) are connected to 3" PUA-1036.

Item 20: process waste from pipeline 3" PUA-1036 routs to Valve Box B11.

Table C-1. (continued).

20		Carries process waste from Valve Box B2 to Valve Box R5	DVB-WM-PW-B2, PUV-WM-64	057502-D2	DVB-WM-PW-B5, 3" PUA-1222 near Valve PUV-WM-84	057503-D7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
21	4" PWM-28104Y	Carries process waste from Valve Box C7 to WM-181	DVB-WM-C9, PUV-WM-125	057501-E3	VES-WM-181	057501-E3	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste travels through pipe reducer before entering WM-181.
22	3" PLA-100163	Abandoned Line, carried process waste from 3" PUA-1036 (item 19) to an unknown location. The original pipe termination point is unknown.	3" PUA-1036 (item 19)	057501-G3	Capped and abandoned, Location unknown.	057501-G3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to 3" PUA-1036 (item 19) and was abandoned in place. The original pipe termination point is unknown
23	3" PLA-104703	Carries process waste from 3" PUA-1036 to Valve Box C10	3" PUA-1036 (item 19)	057501-F3	DVB-WM-PW-C10, Valve PUV-WM-126	057501-D1	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
24	6" PLA-100164	Abandoned Line, carried process waste from an unknown origin to WM-181. The original pipe origin point is unknown.	Capped and abandoned	057501-E3	VES-WM-181	057501-E3	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to WM-181 and is capped and abandoned in place. The original pipe origin point is unknown.
25	1" PLA-104777	Valve Box C11 drain line, carries process waste to Valve Box C12	DVB-WM-C11, Drain	057501-G6	DVB-WM-PW-C12 sump	057501-E2	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
26	1" PLA-104775	Valve Box C9 drain line, carries process waste to Valve Box 1" PLA-104773 (item 94)	DVB-WM-C9, drain	057501-E3	1" PLA-104773 (item 94)	057501-D1	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drain waste travels to Valve Box C12 sump.
27	3" PUA-1013	Abandoned Line, Carried process waste from CPP-604 to Junction Box-2B. The original pipe termination point is unknown.	CPP 604	096156-B2	Junction Box-2B	057501-F4	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipeline begins at CPP-604. Drawings indicate that pipeline was capped at several locations including just outside junction box 2B. Exact capped locations are unknown at this time. The original pipe termination point is unknown.

Table C-1. (continued).

28	3" PUA-1014	Abandoned Line	CPP-604	096156-B1	Junction Box-2A	057501-G6	Concrete Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Items 28 through 31 with the same pipeline names are identified to distinguish between abandoned (item 28) and active (items 29 through 31) pipeline sections. Item 29 and 30 were given because this active pipeline is called out in Drawing. 057502 at two separate places (G7 and D7) and link up with item 31 (G4 through D3).
29		Carries process waste from Valve Box C7 to Valve Box B3	DVB-WM-PW-C7, Tie Point-153	057501-E3, 377825-G2	DVB-WM-PW-B2, PUV-WM-63	57502-D3	Concrete Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	<p>Item 28, 3" PUA-1014 pipeline is abandoned in place. From Drawing 096156-B2 it once attached to VES-WL-101 inside CPP-604. This abandoned pipeline is capped near junction box 2A (Drawing. 057501-G6).</p> <p>Item 29, 3" PUA-1014 connects at Valve Box C7 runs through Valve Box C15 (no valve connection), B3 (PUV-WM-59 and PUV-WM-60) and terminates at B2 (PUV-WM-63). There is a discrepancy in line connections inside Valve Box C7 between Drawing. 057501-E3, 137958-middle and 377825-G3. The first drawing shows 3" PUA-1014 terminating into 3" PUA-1036 (item 19). The later two drawings show 3" PUA-1014 running through the Valve Box C7 without pipe connections.</p> <p>Item 30, 3" PUA-1014 routed from Valve Box C37 to Valve Box A7 (PUV-WM-23) and terminated at Valve Box B1 (near Valve PUV-WM-228). From Drawing. 096156-E8 this pipeline began as 3" PL-AR-151009 (item 211) and change to 3" PUA-1014 at an unknown transition point.</p> <p>Item 31, 3" PUA-1014 connects item 30 with the item 29 at Valve PUV-WM-71 inside Valve Box B1 to PUV-WM-63 and inside Valve Box B2 (Drawing. 057502-G4 through D3).</p>

Table C-1. (continued).

30		Carries process waste from Valve Box C37 to Valve Box B1	DVB-WM-PW-C37, PUV-WM-141 and PUV-WM-139	096156-D8	DVB-WM-PW-B1, near Valve PUV-WM-228	57502-G4	Concrete Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
31		Carries process waste from Valve Box B1 to Valve Box B2	DVB-WM-PW-B1, PUV-WM-71	057502-G4	DVB-WM-PW-B2, through PUV-WM-68 to 3" PUA-1014 near Valves PUV-WM-63 and PUV-WM-64	057502-D and E3	Concrete Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
32	1" PUA-205	Valve Box A2 drain line, carries drain waste from Valve Box A2 to 3" PLA-100163 (item 35)	DVB-WM-PW-A2, drain	057501-F6	3" PLA-100163 (item 35)	057501-A7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline T's in two places before reaching its termination point. First T begins line 1" PUA-209 (capped and abandoned, item 33); second T begins 1" PUA-218 (capped and abandoned, item 34). 1" PUA-205 changes to 3" PLA-100163 (item 35, this may be a drawing mistake) in Drawing. 057501 which then terminates to 3" PWM-48048C (item 212).
33	1" PUA-209	Abandoned Line, carried process waste from 1" PUA-105 (item 32) to an unknown location. The original pipe termination point is unknown.	1" PUA-205 (item 32)	057501-F7	Capped and Abandoned.	057501-F7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	First 1" PUA-205 (item 32) T connection. The original pipe termination point is unknown.
34	1" PUA-218	Abandoned Line, carried process waste from 1" PUA-205 (item 32) to an unknown location. The original pipe termination point is unknown.	1" PUA-205 (item 32)	057501-E7	Capped and Abandoned.	057501-E7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Second 1" PUA-205 (item 32) T connection. The original pipe termination point is unknown.

Table C-1. (continued).

35	3" PLA-100163	Valve Box A2 drain line, carries drain waste from Valve Box A2 to 3" PWM-48048C (item 212)	Unknown seems to be attached to 1" PUA-205 (item 32). May be a drawing mistake	057501-A7	3" PWM-48048C (item 212)	057501-A7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	1" PUA-205 (item 32) changes to 3" PLA-100163 (this may be a drawing mistake) in Drawing. 057501
36	4" PWM-3801C	Carries process waste from condenser tank HE-WM-300 to WM-180	CPP-737, condenser tank HE-WM-300	057501-E7	VES-WM-180	057501-E7	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
37	3" PWM-2011Y	Abandoned Line, carried process waste from 1" DC-AR-151124 (estimated) to WM-180. The original pipe origin point is unknown.	1" DC-AR-151124 (estimated origin)	057501-F7	VES-WM-180	057501-E7	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipeline may be attached to a capped decontamination line (1" DC-AR-151124) and pipe reducer (drawings are unclear). The original pipe origin point is unknown.
38	3" PWM-1024Y	Abandoned Line, carried process waste from 1" DC-AR-151123 (estimated) to WM-180. The original pipe origin point is unknown.	1" DC-AR-151123 (estimated origin)	057501-F7	VES-WM-180	057501-E7	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipeline may be attached to a capped decontamination line (1" DC-AR-151124) and pipe reducer (drawings are unclear). The original pipe origin point is unknown.
39	3" PWM-10019Y	Abandoned Line, carried process waste from 1" DC-AR-151124 (estimated) to WM-180. The original pipe origin point is unknown.	1" DC-AR-151125 (estimated origin)	057501-F7	VES-WM-180	057501-E7	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipeline could be attached to a capped decontamination line (1" DC-AR-151125), drawing and are unclear. The original pipe origin point is unknown.
40	4" PWM-2803C	Carries process waste from condenser tank HE-WM-300 to 4" PWM-18032C (item 304)	CPP-737, condenser tank HE-WM-300	057501-E7	4" PWM-18032C (item 304)	057502-F8	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process Waste drains into VES-WM-100 inside CPP-604. 4" PWM-18032C (item 304) is renamed to 4"-VG-AR-18032 in Drawing. 377829.
41	2" PWM-28027C	CPP-737 drain line, carries drain waste from CPP-737 sumps to CPP-780 sump	CPP-737 Sump	057501-E7	CPP-780 Sump	057501-E6	Tile Encased/Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	

Table C-1. (continued).

42	1" PLA-104767	Valve Box C4 drain line, carries drain waste from Valve Box C4 to Valve Box C12 sump	DVB-WM-PW-C4, drain	057501-F6	DVB-WM-PW-C12, Sump	057501-E2	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This C4 Valve Box drain line (1" PLA-104767 (item 42)) attaches to six other Valve Box drain lines C2 (1" PLA-104766 (43)), C3 (1" PLA-104768 (item 44)), C5 (1" PLA-104771 (item 53)), C6 (1" PLA-104770 (item 74)), C7 (1" PLA-104772 (item 52)) and C8 (1" PLA-104769 (item 45)). This collection of drain line waste dumps into the Valve Box C12 sump.
43	1" PLA-104766	Valve Box C2 drain line, carries drain waste from Valve Box C2 to 1" PLA-104767 (item 42).	DVB-WM-PW-C2, drain	057501-D7	1" PLA-104767 (item 42)	057501-D7, 92092-D6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Leaking process waste inside Valve Box C2 will drain through 1" PLA-104766 to 1" PLA-104767 (item 42) which drains into Valve Box C12.
44	1" PLA-104768	Valve Box C3 drain line, carries drain waste from Valve Box C3 to 1" PLA-104767 (item 42).	DVB-WM-PW-C3, drain	057501-E6	1" PLA-104767 (item 42)	057501-D7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Leaking process waste inside Valve Box C3 will drain through 1" PLA-104766 (item 43) to 1" PLA-104767 (item 42) which will drain into Valve Box C12.
45	1" PLA-104769	Valve Box C8 drain line, carries drain waste from Valve Box C8 to 1" PLA-104767 (item 42)	DVB-WM-PW-C8, drain	057501-B7	1" PLA-104767 (item 42)	057501-A7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Leaking process waste inside Valve Box C8 will drain through 1" PLA-104766 (item 43) to 1" PLA-104767 (item 42) which will drain into Valve Box C12.

Table C-1. (continued).

46	3" PWM-10018C	Carries process waste from VES-WM-100 in 604 to Valve Box A6	VES-WM-100, Jet 057498-D4 WM-500	DVB-WM-PW-A6, PUV-WM-18	057501-H8	Tile Encasement	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline changes to 3" PUA-1030 (item 47) before terminating in Valve Box A6. Drawing. 057501-D2. The last letter in pipeline identification also changes from Y in Drawing. 057498 to C in Drawing. 057501. This could be a drawing mistake.
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Table C-1. (continued).

47	3" PUA-1030	Carries process waste from VES-WM-100 inside CPP-604 and routes through Valve Box A6, C15, B3, B2 and B4	CPP-604, inside VES-WM-100, Jet-WM-500	057498-D5	DVB-WM-PW-B4, pipeline splits, one pipe end is capped the other pipe end terminated at PUV-WM-75	057502-D2	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Three items with the same pipeline names are given to distinguish between the active (item 47) and abandoned (Item 48, 49) pipeline sections.
									<p>Item 47, 3" PUA-1030 is an active pipeline and carries process waste from VES-WM-100 inside CPP-604 through pipeline 3" PWM-10018C (item 46) to Valve Box A6 at Valve PUV-WM-13. Drawing. 057501 shows pipeline change from 3" PWM-10018C (item 46) to 3" PUA-1030 before it terminates into Valve Box A6. It is unknown where pipeline transition takes place. This could be a drawing mistake. The pipeline continues through Valve Box A6 to Valve Box C15 at Valve PUV-WM-54. The pipeline then routes to Valve Box B3 at Valve PUV-WM-57 then to Valve Box B2 at Valve PUV-WM-61 and finally to Valve Box B4 at Valve PUV-WM-75 (Drawing. 057502-D7-3).</p> <p>Item 48, PUA-1030 is inactive and abandoned in place. It runs from Valve Box B4 through Valve Box B6 and terminates just outside WCF (Waste Calcining Facility) at Valve PUV-WM-222. 3" PUA-1005 (item 90) attaches to 3" PUA-1030 inside Valve Box B6.</p> <p>Item 49, PUA-1030 is also inactive and abandoned in place. It runs from VES-WM-102 and terminates somewhere outside the waste tank vault as it routes toward the TFF storage tanks. It was determined from Drawing. 057498 and 057501 that the cut 3" PUA-1030 section leading to the storage tanks was attached to pipeline 3" PWM-10018Y (item 46) during an upgrade project. The location of abandoned pipe cap is unknown. The pipeline is RCRA controlled.</p>



Table C-1. (continued).

48		Capped inside Valve Box B4 and runs through Valve Box B6 to WCF. This line is abandoned in place.	DVB-WM-PW-B4, Capped	057502-D2	PUV-WM-222	106326-C1	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	
49		Capped outside Waste Tank Vault and abandoned in place	Waste Tank Vault, VES-WM-102, Jet-WM-502	057498-A7	Capped and abandoned outside Waste Tank Vault	057498-D5	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	
50	1" PLA-663	Carries process waste from CPP-721 sump to CPP-628, capped and abandoned	CPP-721, Jet-WM-532	057501-C7	CPP-628, Capped and abandoned	106181-G8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline changes from 1" PUA-663 in Drawing. 057501 to 1" PLA-665 in Drawing. 106181 and appears to be capped and abandoned in place.
51	2" PWM-28032C	CPP-738 drain line, carries process waste from CPP-738 sump to CPP-780 sump	CPP-738, sump drain	096157-B3	CPP-780 Sump	057501-E6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
52	1" PLA-104772	Valve Box C7 drain line, carries drain waste from Valve Box C7 to 1" PLA-104767 (item 42)	DVB-WM-PW-C7, drain	057501-E3	1" PLA-104767 (item 42)	057501-C3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Leaking process waste inside Valve Box C7 will drain through 1" PLA-104772 to 1" PLA-104767 (item 42) which will drain into Valve Box C12.

Table C-1. (continued).

53	1" PLA-104771	Valve Box C5 drain line, carries drain waste from Valve Box C5 to 1" PLA-104767 (item 42)	DVB-WM-PW-C5, drain	057501-D4	1" PLA-104767 (item 42)	057501-C3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Leaking process waste inside Valve Box C5 will drain through 1" PLA-104771 to 1" PLA-104767 (item 42) which will drains into Valve Box C12.
54	1 1/2" PLA-104701	Carries process waste from Valve Box C6 to Valve Box C10	DVB-WM-PW-C6, PUV-WM-1 and PUV-WM-2	057501-A5	DVB-WM-PW-C10, 3" x 1 1/2" Reducing Tee	137963-D3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects 1 1/4" PLA-104701 and 1 1/4" PLA-104702 (item 55) in Valve Box C6 then routes to Valve Box C10
55	1 1/4" PLA-104702	Carries process waste from JET-WM-583-4 to Valve Box C6	WM-182 south sump area, JET-WM-583-4	Drawing. 057501-C4 Drawing. 057894-C7	DVB-WM-PW-C6, PLV-WM-2	Drawing. 057501 - C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Line comes out of sump riser #21 (CPP-783) and is contained in a 3" encasement per dwg. 137961-K3.
56	1" PUA-644	Carries drain waste from west concrete enclosure North of CPP-782 (enclosure houses lines 10" VGA-603) to PUA-643 (item 60) which leads to the North sump inside CPP-782.	10" VGA-603 concrete enclosure drain (North end of CPP-782)	105458 Left Middle	1" PUA-643 (item 60) inside CPP-782	105458 Left Middle	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	1" PUA-644 connects to 1" PUA-643 (item 60) which leads to CPP-782 North sump.
57	1" PUA-645	Carries drain waste from the West concrete enclosure North of CPP-782 (enclosure houses 2" PUA-652 (item 58)) to 1" PUA-644 (item 56), inside CPP-782.	2" PUA-652 (item 58) Concrete Encasement Drain (North end of CPP-782)	105458 Left Middle	1" PUA-644 (item 56) inside CPP-782	105458 Left Middle	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	1" PUA-645 connects to 1" PUA-644 (item 56) which leads to CPP-782 North Sump through PUA-643 (item 60)

Table C-1. (continued).

58	2" PUA-652 [2" PWA-652]	Carries process waste from CPP-721 to VES-WM-182 in a concrete enclosure	CPP-721 PIT, From Tank WM-382 through a 4"x 2" eccentric reducer attached to HE-WM-382	105467 Bottom Right	VES-WM-182	105458 Right Middle Underground Utility Drawing C-3 grid D5	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	2" PUA-652 comes from tank WM-382 and goes to a 4" x 2" eccentric reducer located inside CPP-721 then travels in a concrete encasement to CPP-782. After 2" PUA-652 penetrates CPP-782 it rises upward 1' and connects (horizontally) to 1/2" PUA-647 (after the 2" x 1/2") reducer which leads to VES-WM-182. This line is misrepresented in Drawing. 500177.
59	2" PUA-624	Carries liquid vault waste from north sump Jet WM-530 to VES-WM-182	CPP-782 North Sump, Jet WM-530	105458 Left Middle	VES-WM-182	105458 Left Middle	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	2" PUA-624 rises vertically upward from Jet WM-530 turns horizontally (90 deg.) at (-) 19' 1" and turns down vertically (90 deg.) into VES-WM-182.
60	1" PUA-643	Carries drain waste from the East concrete enclosure North of CPP-782 (enclosure houses 10" VGA-604) to North sump, inside CPP-782.	10" VGA-604	105458 Left Middle	CPP-782 North Sump	105458 Left Middle	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	The connection between 1" PUA-643 and 10" VGA 604 is unclear in Drawing. 105458. 1" PUA-644 (item 56) connects to 1" PUA-643 which leads to CPP-782 North sump.
61	1" PUA-646	Carries drain waste from the pipe enclosure located South East of CPP-782 to CPP-782 South sump (enclosure houses lines 3" PUA-601, 602, 604).	3" PUA-601 (item 64), 602 (item 63), 604 (item 65) Concrete Encasement Drain	105458 Top Left	CPP-782 South Sump	105458 Middle	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Drain (origin) elevation for 1" PUA-646 can only be estimated from Drawing. 105458. Pipe runs from the concrete enclosure (housing 3" PUA-602 (item 63), 601 (item 64), 604 (item 65)) penetrates CPP-782 and runs along the inside wall to the South sump. Elevation of piping between CPP-782 penetration and sump cannot be determined from Drawing. 105458.
62	2" PUA-622	Carries vault waste from south sump Jet WM-531 to VES-WM-182	CPP-782 South Sump, Jet WM-531	105458 Bottom Middle	VES-WM-182	105458 Middle	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	2" PUA-622 rises vertically upward from Jet WM-531 turns horizontally (90 deg.) at (-) 19' 1" and turns down vertically (90 deg.) into VES-WM-182.

Table C-1. (continued).

63	3" PUA-602 [PWA-602] ⁱ	Carries Process waste from Valve Box A5, A6 and C15 in a concrete encasement to VES-WM-182	DVB-WM-PL-A6, capped and abandoned	092093-D7, 377819-G7 and 377837-G6	VES-WM-182	105458 Top Middle	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipeline is encased. Pipe name in Drawing. 377819 (3" PWA 602) does not coincide with Drawing. 105458 (3" PUA-602) or Drawing. 092092 (3" PWA-602). Pipeline runs through Valve Box A6 (capped) and A5 (through valve PUV-WM-11) before terminating in WM-182.
64	3" PUA-601 [PWA-601]	Carries Process waste from Valve Box A5 in a concrete encasement to VES-WM-182 and is capped at Valve Box A6	DVB-WM-PL-A6, capped pipeline end. Begins again in DVB-WM-PL-A5, 3" PUV-WM-10	092093-D7, 377819-G7 and 057501-D3-7	VES-WM-182	105458 Top Middle and 057501-C7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This line is capped inside Valve Box A6 (057501-D3). This line is incase in a concrete stainless steel encasement as it leaves Valve Box A5. Pipe name in Drawing. 377819 (3" PWA 601) does not coincide with Drawing. 105458 (3" PUA-601) or Drawing. 092092 (3" PWA-601).
65	3" PUA-604 [PWA-604]	Auxiliary capped line that runs from ground level enters concrete encasement holding process waste lines 3" PUA-602 (item 63) and 601 (item 64) (South East of VES-WM-182) and terminates into VES-WM-182	Grade level, possibly above ground, South East of concrete encasement and South of DVB-WM-PW-C6	092093-E4	VES-WM-182	105458 Top Middle	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipe name 3" PUA-604 in Drawing. 105458 corresponds to 3" PWA-602 (item 63) in Drawing. 092092. Lines (3" PWA-604, 3" PWA-602 (item 63), 3" PWA-601 (item 64) in the south east encasement are mislabeled in Drawing. 092092-E4, 3" PWA-604 should be the southern most line while 3" PWA-602 (item 63) should be the northern most line (Drawing. 092092-E4). 3" PUA-604 (item 65) is a spare line which has a decon stub installed above grade level (South East of VES-WM-182 and South of DVB-WM-PW-C6 to flush out pipe (Drawing. 105466 and 105460)
66	3" PUA-621	Carries process waste from Tank VES-WM-182 to VES-WM-183 in a concrete enclosure for overflow purposes	VES-WM-182	105458 TOP, 057501-C4-6, 057894-B7, 092092-G-F4	VES-WM-183	105460 Bottom Middle, 057894-B7, 057501-C46, 092092-G-F4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipeline encased in concrete as it leaves CPP-782. No valves, tees, etc. in this line. Line is encased in a concrete encasement (Drawing. 105460 Lower middle).

Table C-1. (continued).

67	3" PUA-620	Carries process waste from Tank VES-WM-182 to VES-WM-183 in a concrete enclosure for overflow purposes	VES-WM-182	105458 TOP, 057501-C4-6, 057894-B7, 092092-GF4	VES-WM-183	105460 Bottom Middle, Drawing. 057894-B7, 057501-C46, 092092-G-F4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipeline encased in concrete as it leaves CPP-782. No valves, tees, etc. in this line. Line is encased in a concrete encasement (Drawing. 105460 - Lower middle).
68	1-1/4" PLA-104701	Waste Removal Line from CPP-782 South Sump Jet WM-582-4 to Valve Box C6	CPP-782 (Sump Riser #19), Jet WM-582-4	92092-F5, 057893 Middle Left, 05750-C6	DVB-WM-PW-C6, PLV-WM-1	92092-E4 and 137961-H4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	1-1/4" PLA-104701 was installed after initial CPP-782 construction. 1-1/4" PLA-104701 is encased with a 3" pipe encasement.
69	2" PUA-1033	WM-182 Waste Removal Line from Jet WM-582-1A to Valve Box C2	Inside VES-WM-182 (Tank Riser #19) Jet WM-582-1A	92092-F6, 057893-B4 and 057501-C7	DVB-WM-PW-C2, PUV-WM-116	92092-F6 and 377824-G5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	2" PUA-1033 in Drawing. 057893 does not coincide with Drawing. 092092. It is assumed that P&ID drawings (Drawing. 057501) are more accurate and thus reflect the information stated. After Valve PUV-116 inside Valve Box C2, 2" PUA-1033 turns into 3" PUA-1033 (item 70).
70	3" PUA-1033 [3" PWA-1033]	Carries process Waste from Valve Box C2 to Valve Box C3, C7 and C15	DVB-WM-PW-C2, PUV-WM-115 and PUV-WM-116	92092-G6, 377824-G5 and 057501-D7	DVB-WM-PW-C15, Tie Point 165	92092-F6, 057501-D7 through C3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	3" PWA-1033 runs South from DVB-WM-PW-C2 and turns East between VES-WM-182 and VES-WM-180. The pipe continues east through DVB-WM-PW-C3 (Valves PUV-WM-117 and PUV-WM-119) and DVB-WM-PW-C7 (PUV-WM-120) and terminates at DVB-WM-PW-C15 (Tie Point 165). This pipe is encased as it leaves C2. The pipe also changes names from 3" PWA-1033 to 3" PLA-1033 as piping turns east (Drawing. 092092). The pipe name seems to change again to PUA-1033 as it enters Valve Box C15 (Drawing. 377826). Inside Valve Box C15 the pipe connects to 3" PUA-1030 at Tie Point 165. Estimated grade elevation is [(-) 0' 6"] (Drawing. 377826, 377819 and 137927)

Table C-1. (continued).

71	2" PUA-1099	VES-WM-182 Waste Removal Line from Jet WM-582-1B to Valve Box C2	Inside VES-WM-182 (Tank Riser #20) Jet WM-582-1B	92092-F5, 057893-B4 and 057501-C7	DVB-WM-PW-C2, PUV-WM-115	092092-F6, 377824-G5 and 057501-C7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Tank riser numbers in P and ID Drawing. 057893 does not coincide with Underground Utility Drawing. 092092. It is assumed that P and ID drawings are more accurate (057501) and thus reflect the information stated.
72	1" CTN-100647	Abandoned Line, Old Condensate Line, carried condensate from 10"VPN-602 to 1" CTA-104795.	10" VPN-602 South of CPP-628	137957-B4	1" CTA-104795 North East of WM-180	137956-L1	Unknown	Probably Carbon Steel (Mike Swenson)	This underground pipeline was abandoned in place during the C series Valve Box installation. Portions of this piping have been removed to make room for new construction. Since line has previously been abandoned (cut and capped) it is therefore considered isolated. Issues concerning this isolated pipeline should become a CERCLA matter. This line runs from the middle of the South side of CPP-628 at 12" VPN-602 to the east side of CPP-728 where it turns south towards the North East corner of CPP-781 where it terminates into 1-1/2" CTA-104795. Pipe encasement is unknown at this time due to lack of information.
73	Existing Condensate	Carries condensate from an unknown place around the west side of Valve Box C1 and terminates to an unknown place (unable to determine from drawings)	Unable to determine from present drawings.	137954-M6	Unable to determine from present drawings	137954-M9	Unknown	Probably Carbon Steel (Mike Swenson)	A section of this line was cut and removed in order to make room for DVB-WM-C1 (Valve Box C1). Once Valve Box installation had taken place, the line was reconnected at both ends by routing a section of new line around to the West side of DVB-WM-C1 (Drawing. 137954). This line is referred to as {Existing Condensate} since no other information can be acquired from present drawings. Description, Pipe Diameter, Origin, Termination, Isolation point, Service, Material, and Pipe Elevation are unable to be determined from present drawings. This line is an older line independent of VES-WM-182 and CPP-782. (see DWG. 137954)

Table C-1. (continued).

74	1" PLA-104770	Valve Box C6 drain line, carries drain waste from Valve Box C6 to 1" PLA-104767 (item 42)	DVB-WM-PW-C6, drain	057501-A5	1" PLA-104767 (item 42)	057501-A5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST)	Leaking process waste inside Valve Box C6 will drain into 1" PLA-104770 to 1" PLA-104767 (item 42) which will drains into Valve Box C12.
75	1" PUA-648	Concrete encasement drain for encasement containing 10" VGA-602, carries drain waste to CPP-782 north sump	Concrete encasement containing 10" VGA-602	105460 - Upper left	CPP-782 north sump area, JET-WM-533	Drawing. 105460 - Section W	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	CPP-783 penetration - looks like line enters vault lower than 10" VGA-602 after the lines leave the same concrete encasement. The center line of the sleeve for 10" VGA-602 is at (-) 15' 0" - can't find the details on this section on Drawing. 105460 - Upper middle.
76	1" PUA-649	Drain for encasement containing 2" PUA-655 and connect to PUA-648, carries drain waste to CPP-783 vault sump..	2" PUA-655 (item 82) [2" PWA-655]	105460 - Section V	Tees into 1" PUA-648 (item 75) within CPP-783 vault outside of VES-WM-183.	Drawing. 105460 - Section V and Upper left	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Goes straight down from 2" PUA-655 (item 82) sleeve approximately 1 foot and turns 90 degrees into the side of the vault to tee into 1" PUA-648 (item 75). (Drawing. 105460 - Section V)
77	3" PUA-609 [3" PWA-609]	Carries process waste from DVB-WM-PW-A5 to VES-WM-183. Contained in concrete encasement.	DVB-WM-PW-A5, PUV-WM-8	057501-D5	VES-WM-183	Drawing. 057894-B3 and 057501-C4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	PUV-WM-8 is not remotely maintainable. Unable to determine valve (origin) elevation from Drawing. 377819. Pipeline is encased. Pipe name on Drawing. 377819 and 092093 is 3" PWA-609, and is 3" PWU-609 on Drawing. 105460.
78	3" PUA-610 [3" PWA-610]	Carries process waste from DVB-WM-PW-A5 to VES-WM-183. Contained in concrete encasement.	DVB-WM-PW-A5, PUV-WM-9	057501 - D5	VES-WM-183	Drawing. 057894-B3 and 057501-C4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipe name on Drawing. 377819 and 092093 is 3" PWA-610, and is 3" PWU-610 on Drawing. 105460.

Table C-1. (continued).

79	3" PUA-605	Hose connection - 1" CA-613 ties into the end of this line.	VES-WM-183	Drawing. 105460 - Upper Middle Drawing. 057894 - B3 Drawing. 105161	Line is cut 8" outside of vault wall and filled with 2 feet of concrete	Drawing. 057894 Drawing. 105460 - Upper Middle	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line is in a 6" diameter sleeve. Drawing. 105461 shows slopes to the tank.
80	2" PUA-616	Carries liquid from CPP-783 north sump to WM-183.	CPP-783, JET-WM-533	057501 - C4, 057894 - B4	VES-WM-183	Drawing. 057501 - C4 Drawing. 105460 - Middle Right	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Goes straight up from JET-WM-533 to an elevation of (-) 20'0" [(-) 0'6"] and then down into tank VES-WM-183 @ (-) 21'7" [(-) 0'6"]. There are no valves or tees, etc. in this line (Drawing. 105460).
81	2" PUA-614	Carries liquid waste from south sump to tank VES-WM-183.	CPP-783, JET-WM-534	057501-C4, 057894-A7	VES-WM-183	Drawing. 057894 - A7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Goes straight up from JET-WM-534 to an elevation of (-) 20'0" [(-) 0'6"] and then down into tank VES-WM-183 @ (-) 21'7" [(-) 0'6"]. There are no valves or tees, etc. in this line (Drawing. 105460)
82	2" PUA-655 [2" PWA-655]	Carries process waste from condenser tank (HE-WM-383) WM-183 in CPP-722 to tank VES-WM-183	CPP-722, PUV-WM-112	105466 - Section U and Plan, 057502-D8, 105460 - Section V	VES-WM-183	Drawing. 105460 - Section V Underground Utility Drawing C-3 grid D3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Line runs from HE-WM-383 through 4" PUA-629, which is then reduced down to become 2" PUA-655 and continues on to VES-WM-183. Line is contained in a concrete encasement to the vault. The line is sleeved as it penetrates the vault (Drawing. 500176). However, Drawing. 500176 shows the line encased in a concrete encasement without a sleeve. Drawing. 105460, line is shown in a sleeve without a concrete encasement.
83	3" PUA-607	Overflow from VES-WM-183 to future storage tank - never used.	VES-WM-183	Drawing. 105460 Upper Middle Drawing. 057894 - B3 Drawing. 105161	Line is cut 8" outside of vault wall and filled with 2 feet of concrete	Drawing. 057894 Drawing. 105460 - Upper Middle	Pipe in Pipe Drawing. 105461	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing. 105461 shows pipeline slopes away from the tank.

Table C-1. (continued).

84	3" PUA-608	Overflow from VES-WM-183 to future storage tank - never used.	VES-WM-183	Drawing. 105460 - Upper Middle Drawing. 057894 - B3 Drawing. 105161	Line is cut 8" outside of vault wall and filled with 2 feet of concrete	057894 105460 - Upper Middle	Pipe in Pipe, Drawing. 105461	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing. 105461 shows pipeline slopes away from the tank.
85	1" PUA-651	3" PUA-620 (item 67), - 621 (item 66) Encasement drain, carries drain waste to CPP-783 sump.	Concrete encasement holding 3" PUA-620 (item 67) and -621.(item 66)	Drawing. 105460 - Lower Middle	CPP-783 South sump area, JET-WM-534	105460 - Section X	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Encasement bottom elevation is 21' 4 3/4". (Drawing. 105590 - section L)
86	1" PUA-653	Valve Box A5 drain line, carries drain waste to CPP-783 south sump.	DVB-WM-PW-A5, drain	Drawing. 057501	CPP-783, south sump	105460 - Top middle and Section X, 057501-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing. 057894 shows the line terminating in the vault south end approximately 2/3 way up. Drawing 105460 shows the termination in 1" PUA-651 (item 85) @ an elevation of (-) 23' 9" [(-) 0' 6"]. Shows vault penetration at (-) 24' 4 3/4" and shows slope going down into vault. Drawing. 057501 shows origin in DVB-WM-PW-A5, but Drawing. 377819, the upgrade drawing for Valve Box A5, does not show this line. (may have been left out by mistake)
87	2" PUA-1035 [2" PLA-1035]	Carries process waste from WM-183 jet pump to Valve Box C5.	VES-WM-182, JET-WM-583-1B via tank riser #21	057501-C4, 057894-A-B7, 092093, 057501-C3	DVB-WM-PW-C5, Valve PUV-WM-121	057501 - C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Connects to 3" PUA-1035 inside Valve Box C5.
88	2" PUA-1098 [2" PLA-1098]	Carries process waste from WM-183 jet pump to Valve Box C5.	VES-WM-182, JET-WM-583-1A via tank riser #13	057501 - C4 057894 - AB7 092093	DVB-WM-PW-C5, PUV-WM-122	057501 - C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Connects to 3" PUA-1035 (item 87) inside Valve Box C5.

Table C-1. (continued).

89	1" PUA-654	Valve Box A6 drain line, drains to Valve Box A5	DVB-WM-PW-A6, drain	Drawing. 057501-D3	DVB-WM-PW-A5, sump	057501-D5	Pipe in Pipe/Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Leaks in Valve Box A6 drains into Valve Box A5 which drain into CPP-783 (Sump Riser #21) south sump.
90	3" PUA-1005	Carries process waste from Valve Box C30 (at 3" PU-AR-113540 (item 243)) to Valve Box A6	DVB-WM-PW-C30, (3" PU-AR-113540 (item 243)), PUV-WM-336 and RCV-WM-196	057499-A3	DVB-WM-PW-A6, PUV-WM-7	057501-D3	Pipe in Pipe/Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Items 90 through 93 are given to distinguish between the active (item 90) and abandoned (item 91, 92, 93) pipeline sections. Item 90, 3" PUA-1005 is an active pipeline and carries process waste from Valve Box C30 to Valve Box A6 beginning with pipeline 3" PU-AR-113540 (item 243), Drawing. 057499. The pipeline changes to 3" PUA-1005 in Drawing. 057501 before terminating into Valve Box A6. It is unknown where this pipeline transition takes place. This could be a drawing mistake.
91		Capped inside Valve Box A6, terminates inside Valve Box B4. This line in Abandoned in place.	DVB-WM-PW-A6, capped	057501-C3	DVB-WM-PW-B4, PUV-WM-76	057502-D2	Pipe in Pipe/Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Item 91, 3" PUA-1005 is capped inside Valve Box A6. The pipeline travels from A6 through Valve Box B3 (3" PUA-1029 (item 117) attaches to 3" PUA-1005 inside Valve Box B3) at Valve PUV-WM-58, through B2 (no valve or pipe intersection) and splits into two pipes inside B4. The first pipe is capped inside Valve Box B4 the second pipe terminates at Valve PUV-WM-76.
92		Capped inside Valve Box B4 and terminates inside Valve Box B6	DVB-WM-PW-B4, Capped	057502-D2	DVB-WM-PW-B6, pipeline splits, one end is capped the other end terminates at PUV-WM-78	057502-E2	Pipe in Pipe/Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Item 92, 3" PUA-1005 continues from the capped section inside Valve Box B4 to Valve Box B6 at Valve PUV-WM-78 where it finally terminates.
									Item 93, 3" PUA-1005 is capped at an unknown location inside the TFF and attaches to 2" PUA-1005 just outside CPP-604 Air Lift Pit. This pipeline is abandoned in place.

Table C-1. (continued).

93		Capped and connects to 2" PUA-1005 outside CPP-604 Air Lift Pit	Capped outside CPP-604 Air Lift Pit and abandoned in place	057498-A5	2" PUA-1005 outside CPP-604 Air Lift Pit	057498-A5	Pipe in Pipe/Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	
94	1" PLA-104773	Valve Box C23 drain line, drains to Valve Box C12	DVB-WM-PW-C23, Drain/Sump	057503-F5	DVB-WM-PW-C12, Sump	057501-E2	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This C23 Valve Box drain line (1" PLA-104773) attaches to six other Valve Box drain lines C21 (1" PLA-104779 (item 178)), C19 (1" PLA-104782 (item 126)), C16 (1" PLA-104784 (item 109)), C14 (1" PLA-104783 (item 122)), C10 (1" PLA-104774 (item 95)) and C9 (1" PLA-104775 (item 26)). This collection of drain line waste will dump into the Valve Box C12 sump.
95	1" PLA104774	Valve Box C10 drain line, drains into 1" PLA-104773 (item 94)	DVB-WM-PW-C10, Drain/Sump	057501-D1	1" PLA-104773 (item 94)	057501-D2	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Leaking process waste inside Valve Box C5 will drain through 1" PLA-104774 to 1" PLA-104773 (item 94) which will drain into Valve Box C12.
96	1 1/2" PLA-104710	Carries process waste from Valve Box C23 to Valve Box C12	DVB-WM-PW-C23, Tie Point 224	057503-F5, 377713-C5	DVB-WM-PW-C12, inline sample sump	057501-E2	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to 1 1/4" PLA-104714 (item 179) from Valve Box C18, routes into Valve Box C16 attaching to three Valves (PUV-WM-7, 6, 5). The pipeline then exits Valve Box C16. Near Valve Box C10 the pipeline splits, one end terminates in Valve Box C10 where it is capped, the other end terminates inside Valve Box C12 at the inline sample sump. (Drawing. 057501)

Table C-1. (continued).

97	3" PLA-104703	Carries process waste from Valve Box C10 to Valve Box C12	DVB-WM-PW-C10, PUV-WM-126	057501-D1	DVB-WM-PW-C12, inline sample sump	057501-E2	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects with pipeline 1 1/2" PLA-104775 (item 26) inside Valve Box C12 and rout to the inline sample sump.
98	1" PUA-657	Capped inside Valve Box A7, terminates at CPP-784 south sump.	DVB-WM-PW-A7, Capped	057502-F7	CPP-784, south sump	057502-E5	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is capped inside Valve Box A7. Drain lines (pipe names not given in Drawing. 057502) from CPP-723 and concrete encasement holding 3" PUA-630 (item 100) and 3" PUA-631 (item 99) connect to this pipeline which dumps into CPP-784 south sump.
99	3" PUA-631	Carries process waste from Valve Box A7 to WM-184	DVB-WM-PW-A7, PUV-WM-22	057502-G7	VES-WM-184	057502-F6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is concrete encased as in leaves Valve Box A7 and terminates at CPP-784.
100	3" PUA-630	Capped inside Valve Box A7, terminates at WM-184.	DVB-WM-PW-A7, Capped	057502-F6	VES-WM-184	057502-F6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is capped inside Valve Box A7 and is concrete encased as it leaves Valve Box A7 and terminates at CPP-784.
101	2" PUA-638	Carries sump liquid from CPP-784 south sump to WM-184	CPP-784 south sump, Jet WM-537	057502-F5	VES-WM-184	057502-F6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be located exclusively inside CPP-784.
102	1 1/4" PLA-104706	Carries sump liquid from CPP-784 north sump to Valve Box C16	CPP-784 north sump, Jet WM-584-4	057502-F5	DVB-WM-PW-C16, PLV-WM-5	057502-G6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to 1 1/2" PLA-104710 (item 186) inside Valve Box C16.
103	2" PUA-639	Carries sump liquid from CPP-784 south sump to WM-184	CPP-784 north sump, Jet WM-536	057502-F5	VES-WM-184	057502-F6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be located exclusively inside CPP-784.

Table C-1. (continued).

104	2" PUA-1093	Carries process waste from WM-184 to Valve Box C16	VES-WM-184, Jet-WM-584-1B	057502-E5	DVB-WM-PW-C16, PLV-WM-134	057502-G5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to 3" PUA-1037 (item 105) inside Valve Box C16
105	2" PUA-1037	Carries process waste from WM-184 to Valve Box C16	VES-WM-184, Jet-WM-584-1A	057502-E5	DVB-WM-PW-C16, PLV-WM-132	057502-G5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to 3" PUA-1037 inside Valve Box C16
106	3" PUA-1037	Process waste pipeline that runs from WM-184 to Valve Box B3	VES-WM-184	057502-E5	DVB-WM-PW-B3, near valves PLV-WM-59 and PLV-WM-60	057502-D4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipe line travels from tank WM-184 through Valve Box C16 and terminates inside Valve Box B3. 2" PUA-1093 (item 104) and 2" PUA-1037 (item 105) attaches to 3" PUA-1037 inside Valve Box C16. The flow direction from WM-184 to Valve Box C16 is unknown from Drawing. 057502.
107	1 1/4" PLA-104707	Carries process waste from CPP-785 south sump to Valve Box C16	CPP-784 south sump, 585-4	057502-C5	DVB-WM-PW-C16, PLV-WM-6	057502-G5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to 1 1/2" PLA-104710 (item 186) inside Valve Box C16.
108	1 1/4" PLA-104708	Carries process waste from CPP-786 south sump to Valve Box C16	CPP-785 south sump, 586-4	057502-C4	DVB-WM-PW-C16, PLV-WM-7	057502-G5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to 1 1/2" PLA-104710 (item 186) inside Valve Box C16.
109	1" PLA-104784	Valve Box C16 drain line, carries drain waste to 1" PLA-104773	DVB-WM-PW-C16, Drain	057502-G5	1" PLA-104773 (item 94)	057502-F5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste spills inside Valve Box C16 drains into pipeline 1" PLA-104773 (item 94) which then drains into Valve Box C12 sump.

Table C-1. (continued).

110	1 1/2" PUA-1022	Carries process waste from the condenser tank inside CPP-722 to WM-185	CPP-722, HE-WM-383 and Valve PUV-WM-111	057502-D7	VES-WM-185	057502-C5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Both WM-183 and WM-185 share condenser tank HE-WM-383 inside CPP-722.
111	1" PLA-676	Capped inside CPP-628, begins at CPP-722 sump	CPP-722, sump	057502-E7	CPP-628, Capped	106181-F3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipeline name changes from 1" PUA-676 (item 111) to 1" PUA 661 in Drawing. 106181. This may be a drawing mistake. The line is capped inside CPP-628.
112	2" PUA-1027	Carries CPP-785 north sump liquid to WM-185	CPP-785 north sump, Jet-WM-585-2	057502-C5	VES-WM-185	057502-C6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be located exclusively inside CPP-785.
113	2" PUA-1024	Carries CPP-785 south sump liquid to WM-185	CPP-785 north sump, Jet-WM-585-1	057502-C5	VES-WM-185	057502-C6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be located exclusively inside CPP-785.
114	2" PUA-1038	Carries process waste from WM-185 to Valve Box C14	VES-WM-185, 585-3B	057502-C5	DVB-WM-PW-C14, PUV-WM-130	057502-E5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to 3" PUA-1038 inside Valve Box C14.
115	2" PUA-1094	Carries process waste from WM-185 to Valve Box C14	VES-WM-185, 585-3A	057502-C5	DVB-WM-PW-C14, PUV-WM-131	057502-E5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to 3" PUA-1038 inside Valve Box C14.
116	3" PUA-1028	Travels from Valve Box B3 to WM-185	DVB-WM-PW-B3, DCV-WM-8	057502-D4	VES-WM-185	057502 C6	Concrete encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is incased in concrete along with pipelines 3" PUA-1029 (item 117) and 3" PUA-208 (item 118). It is directly attached to a decon Valve DCV-WM-8 inside Valve Box B3. Drawing. 057502 does not show any other attaching lines or Valves before terminating at WM-185. This may be a drawing mistake since decontamination fluid placed through the pipeline at the Valve will not decon any other line but itself (3" PUA-1028).

Table C-1. (continued).

117	3" PUA-1029	Carries process waste from Valve Box B3 to WM-185	DVB-WM-PW-B3, PUV-WM-55	057502-D4	VES-WM-185	057502-C6	Concrete encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is encased in concrete along with pipelines 3" PUA-1028 and 3" PUA-208 (item 118). This line is attached to pipeline 3" PUA-1005 (item 90) inside Valve Box B3
118	3" PUA-208	Carries process waste from Valve Box B3 to WM-185	DVB-WM-PW-B3, PUV-WM-56	057502-D4	VES-WM-185	057502-C6	Concrete encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is encased in concrete along with pipelines 3" PUA-1028 (item 116) and 3" PUA-1029 (item 117). This line is attached to pipeline 3" PUA-1030 (item 47) inside Valve Box B3
119	3" PUA-1023	Valve Box B4 drain line, carries drain waste to 1" PUA-1023	DVB-WM-PW-B4, drain	057502-D3	1" PUA-1023	057502-D4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste spills inside Valve Box B4 drains into pipeline 1" PUA-1023 (item 120) which then drains into CPP-785 south sump.
120	1" PUA-1023	Valve Box B3 drain line, carries drain waste to CPP-785 south sump	DVB-WM-PW-B3, drain	057502-D4	CPP-785 south sump	057502-C5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	An unnamed drain line leading from a concrete encasement housing 3" PUA-1028 (item 116), 1029 (item 117), 208 (item 118) and 3" PUA-1023 (item 119, drain line from B4) attaches to 1" PUA-1023 before it empties into CPP-785 south sump.
121	3" PUA-1038	Carries process waste from Valve Box C14 to 3" PUA-1030	DVB-WM-PW-C14, near PUV-WM-130 and PUV-WM-131	057502-E5	3" PUA-1030	057502-D5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to both 2" PUA-1094 (item 115) and 2" PUA-1038 (item 121) inside Valve Box C14 and terminates at 3" PUA-1030 (item 47) before Valve Box B3.
122	1" PLA-104783	Valve Box C14 drain line, carries drain waste to 1" PLA-104773 (item 94)	DVB-WM-PW-C14, drain	057502-E5	1" PLA-104773 (item 94)	057502-E5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Leaking process waste inside Valve Box C14 will drain through 1" PLA-104773 (item 94) which will drain into Valve Box C12.

Table C-1. (continued).

123	3" PUA-1013	Abandoned Line, Capped inside Valve Box A7 and B1. The original origin and termination points are unknown.	DVB-WM-PW-A7	057502-G6	DVB-WM-PW-B1	057502-G4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This line is capped at either end in sided Valve Box A7 and B1 and is abandoned in place. The original origin and termination points are unknown.
124	2" PUA-1021	Carries sump liquid from CPP-786 north sump to WM-186	CPP-786, Jet-WM-586-2	057502-C4	VES-WM-186	057502-C4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be located exclusively inside CPP-786.
125	2" PUA-1019	Carries sump liquid from CPP-786 south sump to WM-186	CPP-786, Jet-WM-586-1	057502-C4	VES-WM-186	057502-C4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be located exclusively inside CPP-786.
126	1" PLA-104782	Valve Box C19 drain line, carries drain waste to 1" PLA-104773.(item 94)	DVB-WM-PW-C19, drain	057502-C4	1" PLA-104773 (item 94)	057502-C5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste spills inside Valve Box C19 drains into pipeline 1" PUA-104782 and 104773 which then drains into Valve Box C12 sump.
127	2" PUA-1095	Carries process waste from WM-186 to Valve Box C19	VES-WM-186, Jet 586-3A	057502-C4 and 106226	DVB-WM-PW-C19, PUV-WM-135	057502-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line attaches to 3" PUA-1039 inside Valve Box C19
128	2" PUA-1039	Carries process waste from WM-186 to Valve Box C19	VES-WM-186, Jet 586-3A	057502-C4 and 106226	DVB-WM-PW-C19, PUV-WM-136	057502-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line attaches to 3" PUA-1039 inside Valve Box C19
129	3" PUA-1039	Carries process waste from Valve Box C19 to 3" PUA-1014 (item 28)	DVB-WM-PW-C19, near Valves PUV-WM-136 and PUV-WM-135	057502-C4	3" PUA-1014 (item 28)	057502-D4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to both 2" PUA-1095 (item 127) and 2" PUA-1039 inside Valve Box C19 and terminates at 3" PUA-1039 between Valve Box B3 and B2.

Table C-1. (continued).

130	1" PUA-1017	Control Pit #1 drain line, carries drain waste to CPP-786 north sump.	Control Pit #1, drain	057502-B3	CPP-786 north sump	057502-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Leaking process waste inside Control Pit #1 will drain through 1" PLA-1017 to CPP-786 north sump.
131	1" PUA-1031	Capped inside Valve Box B1 and terminates at CPP-786 south sump	DVB-WM-PW-B1, Capped	057502-G4	CPP-786 south sump	057502-D4	Concrete Encased/ Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line is capped inside Valve Box B1 and routs to CPP-786 south sump. Drain line (unnamed) for concrete encasement housing 3" PUA-1016 (item 132), 1013 (item 133), and 1014 (item 28) also attaches to 1" PUA-1031 before terminating into south sump.
132	3" PUA-1016	Travels from Valve Box B2 to WM-186	DVB-WM-PW-B2, DCV-WM-7	057502-E3	VES-WM-186	057502-C4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is incased in concrete along with pipelines 3" PUA-1013 (item 133) and 3" PUA-1040 (item 135). It is directly attached to a decon Valve DCV-WM-7 inside Valve Box B2. Drawing, 057502 does not show any other attaching lines or valves before terminating at WM-186. This may be a drawing mistake since decontamination fluid placed through the pipeline at the valve will not decon any other line but itself (3" PUA-1016).
133	3" PUA-1013	Abandoned Line, Capped inside Valve Box B2 and terminates at CPP-786.	DVB-WM-PW-B2, Capped	057502-E3	VES-WM-186	057502-C4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	As the pipeline enters into Valve Box B2 from Valve Box B1 (capped at B1) it splits into two lines. One line connects to pipeline 3" PUA-204 (item 136) at valve PUV-WM-69. A portion of the second line was removed and capped at the remaining line ends. The second line continues from the end cap and terminates at WM-186. It is incased in concrete as it leaves Valve Box B2 to WM-186 along with pipelines 3" PUA-1016 and 3" PUA-1040. This line is abandoned in place. Original origin point is unknown (item 133, 134). Original termination point for item 134 is unknown.

Table C-1. (continued).

134		Abandoned Line. Capped inside Valve Box B1 and terminates inside B2.	DVB-WM-PW-B1, Capped	057502-G4	DVB-WM-PW-B2, splits in two to Valve PUV-WM-69, the other end is capped	057502-E3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	
135	3" PUA-1040	Carries process waste from Valve Box B2 to WM-186	DVB-WM-PW-B2, PUV-WM-67	057502-E3	VES-WM-186	057502-C4	Concrete encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is incased in concrete along with pipelines 3" PUA-1016 (item 132) and 3" PUA-1014 (item 28) and attaches to 3" PUA-1040 inside Valve Box B2.
136	3" PUA-204	Abandoned Line. Capped from 3" PUA-1013. Travels from Valve Box B2 through Valve Box B4 to Valve Box B5 where it is capped. Original origin and termination points are unknown	DVB-WM-PW-B2, PUV-WM-69	057502-E3	DVB-WM-PW-B5, Capped	057503-D7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is a continuation of 3" PUA-1013 (item 133, 134) from Valve Box B1. This line is abandoned in place. Original origin and termination points are unknown.
137	3" PUA-1218	Carries process waste from Valve Box B4 to Valve Box B5	DVB-WM-PW-B4, PUV-WM-75	057502-D2	DVB-WM-PW-B5, 3" PUA-1232 (item 150) near Valve PUV-WM-82	057503-D7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste from this line will route to Valve Box B11.
138	3" PUA-1219	Carries process waste from Valve Box B4 to Valve Box B5	DVB-WM-PW-B4, PUV-WM-76	057502-D2	DVB-WM-PW-B5, 3" PUA-1221 (item 174)	057503-D7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste from this line will route to Valve Box B11.
139	1" PUA-1213	Valve Box B6 drain line, carries drain waste to Waste Calcining Facility	DVB-WM-PW-B6, Drain	057502-E2	Just out side WCF (Waste Calcine Facility)	106326-F1	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline changes from 1" PUA-1213 to 1" PUA-3005 (Drawing. 106326) just outside of WCF. The point of transition is unknown at this time.
140	3" PUA-1215	Abandoned Line, Process waste line with both ends capped just outside Valve Box B6	Capped just outside Valve Box B6 and abandoned in place	057502-E2	Capped just outside Valve Box B6 and abandoned in place	057502-E2	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline runs through Valve Box B6. It is capped at either end outside the Valve Box and abandoned in place.

Table C-1. (continued).

141	3" PUA-1216	Abandoned Line, Process waste line with both ends capped just outside Valve Box B6	Capped just outside Valve Box B6 and abandoned in place	057502-E2	Capped just outside Valve Box B6 and abandoned in place	057502-E2	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline runs through Valve Box B6. It is capped at either end outside the Valve Box and abandoned in place.
142	3" PUA-1100	Process waste pipeline that may carry decontamination solution from Valve Box B6 to 3" PUA-1030 (item 47)	Just outside Valve Box DVB-WM-PW-B6, DCV-WM-80	057502-E2	DVB-WM-PW-B6, PUV-WM-80	057502-E2	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries decontamination fluid from an outside hookup into Valve Box B6 to 3" PUA-1030 (item 47).
143	3" PUA-1101	Process waste pipeline that may carry decontamination solution to 3" PUA-1005 (item 90)	Just outside Valve Box DVB-WM-PW-B6, DCV-WM-79	057502-E2	DVB-WM-PW-B6, PUV-WM-79	057502-E2	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline seems to carry decontamination fluid from an outside hookup into Valve Box B6 to 3" PUA-1005 (item 90).
144	3" PUA-1226 [3" PWA-1226]	Carries process waste from WM-104 to Valve Box B8.	CPP-717B, VES-WM-104, JET-WM-514	057500-D3	DVB-WM-PW-B8, PUV-WM-29	057503-G8	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from VES-WM-104 to Valve Box B8 where the line terminates at 3" PUA-1232 (item 150).
145	3" PUA-1227	Carries process waste from WM-104 to Valve Box B8.	CPP-717B, VES-WM-104, JET-WM-520	057500-D3	DVB-WM-PW-B8, PUV-WM-30	057503-G8	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from VES-WM-104 to Valve Box B8 where the line terminates at 3" PUA-1233 (item 151)..
146	3" PUA-1228	Carries process waste from WM-105 to Valve Box B8.	CPP-717C, VES-WM-105, JET-WM-515	057500-D1	DVB-WM-PW-B8, PUV-WM-31	057503-G8	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from VES-WM-105 to Valve Box B8 where the line terminates at 3" PUA-1233 (item 151).
147	3" PUA-1229	Carries process waste from WM-105 to Valve Box B8.	CPP-717C, VES-WM-105, JET-WM-516	057500-D1	DVB-WM-PW-B8, PUV-WM-32	057503-G8	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from VES-WM-105 to Valve Box B8 where the line terminates at 3" PUA-1232 (item 150).
148	3" PUA-1230	Carries process waste from WM-106 to Valve Box B8	CPP-717D, VES-WM-106, JET-WM-517	057500-D7	DVB-WM-PW-B8, PUV-WM-34	057503-G8	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from VES-WM-106 to Valve Box B8 where the line terminates at 3" PUA-1232 (item 150).
149	3" PUA-1231	Carries process waste from WM-106 to Valve Box B8	CPP-717D, VES-WM-106, JET-WM-518	057500-D7	DVB-WM-PW-B8, PUV-WM-33	057503-G8	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from VES-WM-106 to Valve Box B8 where the line terminates at 3" PUA-1233 (item 151).

Table C-1. (continued).

150	3" PUA-1232 [3" PWA-1232]	Carries process waste from WM-103 to Valve Box B8, B7 and finally to B5	CPP-717A, VES-WM-106, JET-WM-519	057500-D5	DVB-WM-PW-B9, PUV-WM-82	057503-D7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from CPP-717A (VES-WM-103) to Valve Box B8 (Valve PUV-WM-30), B7 (PUV-WM-37) and B5 (PUV-WM-82). 3" PUA-1230 (item 148) and 1229 (item 147) attached to this line inside Valve Box B8.
151	3" PUA-1233 [3" PWA-1233]	Carries process waste from WM-103 to Valve Box B8, B7 and finally to B5.	CPP-717A, VES-WM-106, JET-WM-513	057500-D5	DVB-WM-PW-B5, PUV-WM-84 and 85	057503-D7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from VES-WM-103 to Valve Box B8 (Valve PUV-WM-27), B7 (PUV-WM-35), B5 (PUV-WM-84 and 85). 3" PUA-1227, 1228 (item 146) and 1231 (item 149) attached to this line inside Valve Box B8, 3" PUA-1036 (item 18) attaches to this line inside Valve Box B5.
152	1" PUA-1234 [1" PWA-1234]	Valve Box B8 drain line, carries drain waste to Valve Box B7 sump	DVB-WM-PW-B8, Drain	057503-G8	DVB-WM-PW-B7, Sump	057503-F8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Carries process waste from Valve Box B8 to Valve Box B7. Valve Box B8 waste will drain into CPP-713 (next to WM-187) north sump.
153	1" PUA-1235 [1" PWA-1235]	Valve Box B7 drain line, carries drain waste to Valve Box B5 sump	DVB-WM-PW-B7, Drain	057503-F8	DVB-WM-PW-B5, Sump	057503-D7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Carries process waste from Valve Box B7 (which may include waste from Valve Box B8) to Valve Box B5. Valve Box B7 waste will drain into CPP-713 (next to WM-187 north sump).
154	1" PUA-1210	Valve Box B5 drain line, carries drain waste to vault CPP-713 north sump	DVB-WM-PW-B5, Drain	057503-D7	CPP-713, VES-WM-187 North Sump	057503-B6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Carries process waste from Valve Box B5 (which may include waste from Valve Box B8 and B7) to CPP-713 (next to WM-187 north sump).
155	1 1/2" PUA-1205	Condenser tank HE-WM-387 Drain line, carries drain waste to WM-188.	CPP-743, HE-WM-387	057503-B5	CPP-713, VES-WM-188	057503-F7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This drain line carries waste from condenser tank HE-WM-387 through Valve Box C18 (PUV-WM-173) to WM-188. 1 1/2" PUA-1211 (item 180) connects to this pipeline in Valve Box C18.

Table C-1. (continued).

156	1" PLA-104780	Valve Box C22 drain line, carries drain waste to 1" PLA-104773.(item 94)	DVB-WM-PW-C22, Drain	057503-G7	1" PLA-104773 (item 94)	057503-G6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	The waste from this drain line will drain into Valve Box C12 sump.
157	2" PUA-1091	Carries process waste from WM-188 to Valve Box C22	VES-WM-188, Jet-WM-588-2A	057503-F7	DVB-WM-PW-C22, PUV-WM-98	057503-G7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line attaches to 3" PUA-1201 (item 159) inside Valve Box C22.
158	2" PUA-1201	Carries process waste from WM-188 to Valve Box C22	VES-WM-188, Jet-WM-588-2B	057503-F7	DVB-WM-PW-C22, PUV-WM-97	057503-G7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line changes into 3" PUA-1201 (item 159) inside Valve Box C22
159	3" PUA-1201	Carries process waste from C22 to 3" PUA-1232 (item 150)	DVB-WM-PW-C22, PUV-WM-97 and 98	057503-G7	3" PUA-1232 (item 150)	057503-D7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line attaches to 3" PUA-1232 (item 150) between Valve Box B5 and B9.
160	3" PUA-1202	Carries process waste from C21 to 3" PUA-1232 (item 150)	DVB-WM-PW-C21, PUV-WM-95 and 96	057503-C7	3" PUA-1232 (item 150)	057503-D7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line attaches to 3" PUA-1232 (item 150) between Valve Box B5 and B9.
161	2" PUA-1202	Carries process waste from WM-187 to Valve Box C21	VES-WM-187, Jet-WM-587-3A	057503-B7	DVB-WM-PW-C21, PUV-WM-96	057503-C7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line changes into 3" PUA-1202 inside Valve Box C21
162	2" PUA-1092	Carries process waste from WM-187 to Valve Box C21	VES-WM-187, Jet-WM-587-3B	057503-B7	DVB-WM-PW-C21, PUV-WM-95	057503-C7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line attaches to 3" PUA-1202 (index 160) inside Valve Box C21.
163	2" PUA-1206	Carries sump liquid from CPP-713 south sump to WM-188	VES-WM-188, Jet-WM-588-1B, south sump	057503-F7	VES-WM-188	057503-F7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be enclosed in vault CPP-713 (WM-188)
164	2" PUA-1207	Carries sump liquid from CPP-713 north sump to WM-188	VES-WM-188, Jet-WM-588-1A, north sump	057503-F7	VES-WM-188	057503-F7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be enclosed in vault CPP-713 (WM-188)

Table C-1. (continued).

165	1 1/4" PLA-104711	Carries sump liquid from CPP-713 north sump (WM-188) to Valve Box C23	VES-WM-188, Jet-WM-588-4, north sump	057503-F6	DVB-WM-PW-C23, PLV-WM-9	057503-G6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Sump liquid will drain into Valve Box C12 sump
166	3" PUA-1204	Carries process waste from Valve Box B9 to WM-188	DVB-WM-PW-B9, PUV-WM-94	057503-E7	VES-WM-188	057503-F7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to 3" PUA-1089 (item 168) inside Valve Box B9 which runs to WM-187
167	3" PUA-1203	Carries process waste from Valve Box B9 to WM-188	DVB-WM-PW-B9, PUV-WM-93	057503-E7	VES-WM-188	057503-F7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to 3" PUA-1090 (item 169) inside Valve Box B9 which runs to WM-187
168	3" PUA-1089	Carries process waste from Valve Box B9 to WM-187	DVB-WM-PW-B9, PUV-WM-87	057503-D7	VES-WM-188	057503-F7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to 3" PUA-1204 (item 166) inside Valve Box B9 which runs to WM-188
169	3" PUA-1090	Carries process waste from Valve Box B9 to WM-187	DVB-WM-PW-B9, PUV-WM-88	057503-D7	VES-WM-188	057503-F7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to 3" PUA-1203 inside Valve Box B9 which runs to WM-188
170	2" PUA-1209	Carries sump liquid from CPP-713 north sump to WM-187	VES-WM-187, Jet-WM-587-2A, north sump	057503-B6	VES-WM-187	057503-B7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be enclosed in vault CPP-713 (WM-187)
171	2" PUA-1208	Carries sump liquid from CPP-713 south sump to WM-187	VES-WM-187, Jet-WM-587-2B, south sump	057503-B7	VES-WM-187	057503-B7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be enclosed in vault CPP-713 (WM-187)
172	1 1/4" PLA-104709	Carries sump liquid from CPP-713 south sump (WM-187) to Valve Box C23	VES-WM-187, Jet-WM-587-4, south sump	057503-B7	DVB-WM-PW-B9, PLV-WM-8	057503-F6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Sump liquid will drain to Valve Box C12 sump
173	1" PUA-1217	Junction Box 7, drain line	Junction Box-7, Drain	057503-D6	CPP-713 (WM-187) south sump	057503-D7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	No working valves (only abandoned valves) are located inside junction box 7.

Table C-1. (continued).

174	3" PWA-1221	Carries process waste from Valve Box B5 to B11	DVB-WM-PW-B5, 3" PUA-1219	057503-D7	DVB-WM-PW-B11, PUV-WM-338	057503-D3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline runs through Valve Box B9 (PUV-WM-91), JB-7 (no connecting valve), B10 (PUV-WM-303)
175	3" PWA-1223	Abandoned Line, Pipeline runs from B5 to B10 (through Valve Box B9 and junction box-7) and from B10 to B11	Abandoned pipeline has two origins (1) DVB-WM-PW-B5, Capped and (2) DVB-WM-PW-B10, Capped	057503-D7 and D4	Abandoned pipeline has two termination points, (1) DVB-WM-PW-B10, Capped and (2) DVB-WM-PW-B11, Capped (the termination points are respective to the origin points)	057503-D5	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is capped inside Valve Box B5, B10 (2 places) and B11. 3" PWA-1223 begins at Valve Box B5 (capped) and runs through Valve Box B9 (no connecting valve) and JB-7 (no connecting valve) where it is capped at Valve Box B10. A portion of the line continues from the second cap inside Valve Box B10 and runs to Valve Box B10 where it is capped again.
176	3" PWA-1222	Carries process waste from Valve Box B5 to B11	DVB-WM-PW-B5, PUV-WM-85	057503-D6	DVB-WM-PW-B11, PUV-WM-322	057503-D3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline runs through Valve Box B9 (no connecting valve), Junction Box-7 (no connecting valve), Valve Box B10 (no connecting valve)
177	3" PWA-1220	Carries process waste from Valve Box B5 to B11	DVB-WM-PW-B5, PUV-WM-82	057503-D7	DVB-WM-PW-B11, PUV-WM-380	057503-D3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline runs through Valve Box B9 (PUV-WM-90), JB-7 (no connecting valve), B10 (no connecting valve)
178	1" PLA-104779	Valve Box C21, drain line, carries drain waste to 1" PLA-104773.(item 94)	DVB-WM-PW-C21, Drain	057503-C7	1" PLA-104773 (item 94)	057503-C8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drain liquid will drain to Valve Box C12 sump through 1" PLA-104773 (item 94).
179	1 1/4" PLA-104714	Carries process waste from Valve Box C18 to 1 1/2" PLA-104710 (item 186)	DVB-WM-PW-C18, PLV-WM-12	057503-B8	1" PLA-104710 (item 186)	057503-C8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste will drain to Valve Box C12 sump through 1" PLA-104710 (item 186).

Table C-1. (continued).

180	1 1/2" PUA-1211	Carries process waste from Valve Box C18 to WM-187	DVB-WM-PW-C18, PUV-WM-172	057503-B8	VES-WM-187	057503-B7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipeline is attached to condenser tank HE-WM-387 (CPP-743) drain line inside Valve Box C18.
181	1" PUA-1214	Control pit #2, drain line, carries drain waste to CPP-743, Sump	Control pit #2, Drain	057503-B6	CPP-743, Sump	057503-B5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
182	1" PLA-104713	Carries process waste from Valve Box C24 to Valve Box C23.	DVB-WM-PW-C24, PLV-WM-11	057503-D4	DVB-WM-PW-C23, Between valves PLV-WM-8 and 78	057503-F5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste will drain to Valve Box C12 sump. 1" PLA-104710 (item 186) connect to this pipeline.
183	1 1/4" PLA-104715	Carries process waste from CPP-713 (WM-189) cold sump to Valve Box C23.	Pipe reducer outside CPP-713 (VES-WM-189), attaching to 2" PUA-1317 (item 184)	057503-C4	DVB-WM-PW-C23, PLV-WM-78	057503-F5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	The pipe reducer location (outside CPP-713 (WM-189)) is unknown at this time. Pipeline name changes from 2" PUA-1317 (item 184) to 1 1/4" PLA-104715 at this reducer.
184	2" PUA-1317	Carries process waste from CPP-713 (WM-189) cold sump to Valve Box C23.	CPP-713 (VES-WM-189), Cold Sump, Jet-WM-589-4	057503-B4	Pipe reducer outside CPP-713 (VES-WM-189) attaching to 1 1/4" PLA-104715 (item 183)	057503-F5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	The pipe reducer location (outside CPP-713) is unknown at this time. Pipeline name seems to change from 2" PUA-1317 to 1 1/4" PLA-104715 (item 183) at this reducer.
185	1" PUA-1325	Valve Box B10, drain line, carries drain waste to CPP-713 north sump.	DVB-WM-PW-B10, Drain	057503-D5	CPP-713 (VES-WM-189) North Sump	057503-B4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
186	1" PLA-104710	Carries process waste from Valve Box C25 to 1" PLA-104713 (item 186)	DVB-WM-PW-C25, PLV-WM-10	057503-F5	1" PLA-104713 (item 186)	057503-F5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste will drain to Valve Box C12 sump

Table C-1. (continued).

187	1 1/4" PLA-104786	Carries process waste from CPP-713 (WM-190) cold sump to Valve Box C23.	Pipe reducer outside CPP-713 (VES-WM-190), attaching to 2" PUA-1318 (item 188)	057503-F5	DVB-WM-PW-C23, PLV-WM-79	057503-F5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	The pipe reducer location (outside CPP-713) is unknown at this time. Pipeline name seems to change from 2" PUA-1318 (item 188) to 1 1/4" PLA-104786 at this reducer.
188	2" PUA-1318	Carries process waste from CPP-713 cold sump to Valve Box C23.	CPP-713 (VES-WM-190), Cold Sump, Jet-WM-590-4	057503-F4	Pipe reducer outside CPP-713 (VES-WM-190) attaching to 1 1/4" PLA-104786 (item 187)	057503-F5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	The pipe reducer location (outside CPP-713) is unknown at this time. Pipeline name seems to change from 2" PUA-1317 (item 184) to 1 1/4" PLA-104715 (item 183) at this reducer. 2" WRN-1337 connects to 2" PUA-1318 and is abandoned in place.
189	3" PUA-1302	Carries process waste from Valve Box C24 and C25 to 3" PUA-1301. (item 190)	DVB-WM-PW-C24, PUV-WM-310 and 309, DVB-WM-PW-C25, PUV-WM-312	057503-C4	3" PUA-1301 (item 190)	057503-G4 through D4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline seems to connect in three places. (1) Valve Box C25 (PUV-WM-310 and 309), (2) Valve Box C24 (DVB-WM-312), (3) pipeline 3" PUA-1301 (item 190).
190	3" PUA-1301	Carries process waste from 3" PUA-1032 to Valve Box B10	3" PUA-1032 (item 189)	057503-D5	DVB-WM-PW-B10, 3" PWA-1220 (item 177)	057503-D5	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to 3" PWA-1220 (item 177) inside Valve Box B10
191	1" PLA-110537	Carries process waste from CPP-713 (WM-189) south sump to Valve Box C25	CPP-713 (WM-189) South Sump, Jet-WM-589-2A	057503-B4	DVB-WM-PW-C25, 3" PLV-WM-73	057503-G4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline seems to change from 1" PLA-110537 to 1" PL-AR-110537 before terminating at Valve Box C25.
192	2" PUA-1307	Carries sump liquid from CPP-713 (WM-189) north sump to WM-189	CPP-713 (WM-189) North Sump, Jet-WM-589-3	057503-B4	VES-WM-189	057503-B3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be contained inside vault CPP-713 (WM-189)
193	2" PUA-1306	Carries sump liquid from CPP-713 (WM-189) south sump to WM-189	CPP-713 (WM-189) South Sump, Jet-WM-589-2	057503-B4	VES-WM-189	057503-B3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be contained inside vault CPP-713 (WM-189)

Table C-1. (continued).

194	3" PUA-1304	Carries process waste from Valve Box B10 to WM-189	DVB-WM-PW-B10, PUV-WM-301	057503-C5	VES-WM-189	057503-B3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is connects to 3" PUA-1316 (item 196) inside Valve Box B10 which leads WM-190
195	3" PUA-1303	Carries process waste from Valve Box B10 to WM-189	DVB-WM-PW-B10, PUV-WM-302	057503-C5	VES-WM-189	057503-B3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is connects to 3" PUA-1315 (item 197) inside Valve Box B10 which leads WM-190
196	3" PUA-1316	Carries process waste from Valve Box B10 to WM-190	DVB-WM-PW-B10, PUV-WM-308	057503-E5	VES-WM-190	057503-F3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is connects to 3" PUA-1304 (item 194) inside Valve Box B10 which leads WM-189
197	3" PUA-1315	Carries process waste from Valve Box B10 to WM-190	DVB-WM-PW-B10, PUV-WM-307	057503-E5	VES-WM-190	057503-F3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is connects to 3" PUA-1303 (item 195) inside Valve Box B10 which leads WM-189
198	1" PL-AR-10541	Carries sump liquid from CPP-713 (WM-190) north sump to Valve Box C25	CPP-713 (WM-190) North Sump, Jet-WM-590-3A	057503-F4	DVB-WM-PW-C25, PUV-WM-74	057503-G4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Sump liquid will drain to Valve Box C12 sump.
199	2" PUA-1309	Carries sump liquid from CPP-713 (WM-190) north sump to WM-190	CPP-713 (WM-190) North Sump, Jet-WM-590-3	057503-F4	VES-WM-190	057503-F4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be contained inside vault CPP-713 (WM-190)
200	2" PUA-1308	Carries sump liquid from CPP-713 (WM-190) south sump to WM-190	CPP-713 (WM-190) North Sump, Jet-WM-590-2	057503-F4	VES-WM-190	057503-F4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline may be contained inside vault CPP-713 (WM-190)

Table C-1. (continued).

201	2" PUA-1314	Carries process waste from WM-190 to Valve Box C25	VES-WM-190, Jet-WM-590	057503-F4	DVB-WM-PW-C25, PUV-WM-311	057503-G4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to 3" PUA-1302 (item 189) inside Valve Box C25
202	{3"} 2" PUA-1302	Carries process waste from WM-190 to Valve Box C25	VES-WM-190, Jet-WM-590-S	057503-F4	DVB-WM-PW-C25, PUV-WM-312	057503-G4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing 057503 shows this as a 3" PUA-1302 (item 189), this may be a drawing mistake. Similar connections from tank to valve box with in the TFF have always been 2" lines. The 2" lines then connect to a 3" line inside the valve box and then rout to other TFF areas. Because of this I have changed the 3" PUA-1302 (as stated in Drawing. 057503-F4) to the correct designation of 2" PUA-1302 as line travels from tank to valve box.
203	1 1/2" PUA-1311	Carries process waste from control pit #3 to WM-190	Control Pit #3, PUV-WM-318	057503-D2	VES-WM-190	057503-F3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is connected to other pipelines that route to WM-189 (1 1/2 PUA-1305 (item 204)) and condenser tank HE-WM-387 (CPP-743) inside Control Pit #3.
204	1 1/2" PUA-1305	Carries process waste from 1 1/2" PUA-1205 (item 155) (HE-WM-387 (CPP-743) drain waste) through control pit #3 to WM-189	1 1/2" PUA-1205 (item 155)	057503-A6	VES-WM-189	057503-B3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste carried by this pipeline is from condenser tank HE-WM-387 (CPP-743). The pipeline travels through control pit #3 (PUV-WM-317) as it routs to WM-189.
205	1" PUA-1312	Control pit #3, drain line, carries drain waste to CPP-743 sump.	Control Pit #3, Drain	057503-D2	CPP-743, Sump	057503-A5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drain waste will dump into storage tanks WM-187 or WM-188.

Table C-1. (continued).

206	2" PUA-1313	Carries process waste from WM-189 to Valve Box C24	VES-WM-190, Jet-WM-589-1	057503-B3	DVB-WM-PW-C24, PUV-WM-309	057503-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to 3" PUA-1302 (item 189) inside Valve Box C25
207	{3"} 2" PUA-1301	Carries process waste from WM-189 to Valve Box C24	VES-WM-190, Jet-WM-589-5	057503-B3	DVB-WM-PW-C24, PUV-WM-310	057503-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing 057503 shows this as a 3" PUA-1301, this may be a drawing mistake. Similar connections from tank to valve box with in the TFF have always been 2" lines. The 2" lines then connect to a 3" line inside the valve box and then rout to other TFF areas. Because of this I have changed the 3" PUA-1301 (as stated in Drawing. 057503-B3) to the correct designation of 2" PUA-1302 as line travels from tank to valve box.
208	3" PA-AB-1700	Carries process waste from Valve Box B11 to NWCF	DVB-WM-PW-B11, PUV-WM-338, 322, 64 and 380	057503-D3	NWCF (New Waste Calcining Facility)	133407-D6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
209	1" PLA-104776	Abandoned Line, Capped inside Valve Box C12 and C37. Original origin and termination points are unknown.	DVB-WM-PW-C37, Capped	096156-D8	Capped inside DVB-WM-PW-C12	057501-E2	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is abandoned in placed and capped inside Valve Box C12 and C37. It is assumed that the pipe origin begins in C37 and terminates in C12. Original origin and termination points are unknown.
210	3" PLA-104710	Carries process waste from Valve Box C12 to C37	DVB-WM-PW-C12, HV-WM-81	057501-E2	DVB-WM-PW-C37, 3" PLA-10111	096156-D8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	It is assumed that the pipe origin begins in C12 and terminates is C37.

Table C-1. (continued).

211	3" PW-AR-151009	Carries process waste from VES-WL-101 through Valve Box C37 to pipeline 3" PUA-1014 (item 28).	VES-WL-101, Jet-WL-500	096156-A3	Unknown connection point location, 3" PUA-1014 (item 28)	057502-G8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline runs from VES-WL-101 through Valve Box C37 and seems to change into 3" PUA-1014 (item 28). The point of change is unknown.
212	3" PWM-48048C	Abandoned Line, Capped inside Valve Box C37 and terminates at VES-WL-102	DVB-WM-PW-C37, Capped	096156-D7	VES-WL-102	096156-A4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
213	3" PY-2401Y	Carries process waste from Valve Box C37 to VES-WL-101 (CPP-604)	DVB-WM-PW-C37, PLV-WL-185	096156-D7	VES-WL-101	096156-A3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline changes from 3" PY-2401Y to 3" PY-2403Y just before terminating into VES-WL-101. The point of change is unknown
214	1 1/2" PL-AR-113808	Carries process waste from VES-WL-132 (Sediment Tank Vault), Jet-WL-532, to Valve Box C37	Sediment Tank Vault, Jct-WL-532, VES-WL-132	096156-D6	DVB-WM-PW-C37, PLV-WL-185	096156-D7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
215	2" PL-AR-113803	Carries process waste from VES-WL-133 to Valve Box C37	VES-WL-133, Jet-WL-533-1	096156-A6	DVB-WM-PW-C37, PLV-WL-216	096156-D7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
216	3" Sump Drain	Capped inside Valve Box C37 sump and terminates at VES-WL-102 and 103 sump	DVB-WM-PW-C37, Sump Drain, Capped	096156-C7	VES-WL-102 and 103 sump	096156-A3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing. 096156 does not give an identification number for this pipeline.
217	1" Drain	Capped inside Valve Box C37 and terminates at VES-WL-102 and 103 sump	DVB-WM-PW-C37, Drain, Capped	096156-C7	VES-WL-102 and 103 sump	096156-A3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Drawing. 096156 does not give an identification number for this pipeline.

Table C-1. (continued).

218	3" PL-AR-113806	Carries process waste from Valve Box C37 to 6" PL-AR-113802 (item 305)	DVB-WM-PW-C37, HV-WL-235 and HV-WL-187	096156-C7	6" PL-AR-113802 (item 305)	096156-B7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	The pipeline connection to 6" PL-AR-113802 (item 305) occurs outside Valve Box C37, unknown location. This is a RCRA controlled pipeline.
219	3" PL-AR-113802	Carries process waste from 6" PL-AR-113802 (item 305) to VES-WL-132 (Sediment Tank Vault)	Outside Valve Box C37 (unknown), 3" PL-AR-113806 (item 218) Connection	096156-B7	DVB-WM-PW-C37	096156-D5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	3" PL-AR-113800 (item 220) and 113801 (item 221) connect to this pipeline before it routs into Valve Box C38. The pipeline finally terminates into VES-WL-132 (Sediment Tank Vault). This is a RCRA controlled pipeline. VES-WL-132 (Sediment Tank Vault), PLV-WLT-198
220	3" PL-AR-113800	Carries process waste from Valve Box C32 to 6" PL-AR-113802	DVB-WM-PW-C32, HV-WM-38	057499-C3	6" PL-AR-113802	096156-B7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	RCRA controlled pipeline.
221	3" PL-AR-113801	Carries process waste from Valve Box C32 to 6" PL-AR-113802 (item 305)	DVB-WM-PW-C32, HV-WM-38	057499-C3	6" PL-AR-113802 (item 305)	096156-B7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	RCRA controlled pipeline.
222	1 1/2" PWM-20028Y	Carries VES-WM-100 sump liquid to Valve Box C37	Waste Tank Vault, VES-WM-100 Sump	096156-B6	DVB-WM-PW-C37, PLV-WL-242	096156-C8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to 1 1/2" PL-AR-20028 inside Valve Box C37
223	1 1/2" PWM-3019Y	Carries VES-WM-101 and 102 sump liquid to Valve Box C37	Waste Tank Vault, VES-WM-101 and 102 Sump	096156-A7	DVB-WM-PW-C37, PLV-WL-243	096156-C8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to 1 1/2" PL-AR-20028 (item 222) inside Valve Box C37
224	3" PU-AR-151822	Carries process waste from Valve Box C37 to P.E.W. Evaporator	DVB-WM-PW-C37, PUV-WM-140	096156-D8	P.E.W. Evaporator	094276-D7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Unable to find process waste lines in Drawing. 094276-D7. This may be a drawing mistake.

Table C-1. (continued).

225	3" PU-AR-151823	Carries process waste from Valve Box C37 to P.E.W. Evaporator	DVB-WM-PW-C37, PUV-WM-139	096156-D8	P.E.W. Evaporator	094276-D7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Unable to find process waste lines in Drawing. 094276-D7. This may be a drawing mistake.
226	3" PLA-10111	Carries process waste from CPP-633 through Valve Box D4 to C37	CPP-633, Manual Block Valve in Off-gas Blower Cell	106421-A5	DVB-WL-PL-C37, HV-WL-187	096156-D8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is RCRA controlled from Valve Box D4 to C37
227	2" PL-AD-102750	Carries process waste from NWCF (New Waste Calcining Facility) to Valve Box D4	NWCF (New Waste Calcining Facility)	133407-C7	DVB-OGF-PL-D4, PLV-OGF-34	096156-B8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is RCRA controlled
228	1" PLA-106923	Carries process waste from Waste Solvent Storage System to Valve Box D4	Waste Solvent Storage System, VES-NCE-184	058620-D7	DVB-OGF-PL-D4, PLV-OGF-45	096156-B7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
229	1" LI2-NN-110602	Carries process waste from main stack to Valve Box D4	CPP-692, LIV-OGF-003	444164-B2	DVB-OGF-PL-D4, 1/2" LA2N-106922	096156-B7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
230	1" PL-AR-113799	Carries process waste from VES-WL-133 through Valve Box C38 to CPP-604 Evaporation Cell, WL-161	Collection Tank Vault, Jet-WL-533-2, VES-WL-133	096156-B5	CPP-604, P.E.W. Evaporator, WL-161, PLV-WLE-183	096156-C3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is RCRA controlled. Unable to determine from drawings if this pipeline runs underground before terminating at the CPP-604 PEW Evaporator or if it remains inside buildings.
231	2" PL-AR-113807	Carries process waste from CPP-604 Evaporation Cell, WL-161 to Collection Tank Vault, VES-WL-133	CPP-604, Evaporation Cell, WL-161, 2" PWL-3068C	096156-C3	Collection Tank Vault, VES-WL-133	096156-A5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is RCRA controlled. Unable to determine from drawings if this pipeline runs underground before terminating at the collection tanks or if it remains inside buildings.

Table C-1. (continued).

232	3" PL-AR-113798	Carries process waste from CPP-604 Evaporation Cell, WL-161 to Collection Tank Vault, VES-WL-133	CPP-604, Evaporation Cell, WL-161, PLV-WLE-181	096156-C3	Collection Tank Vault, VES-WL-133	096156-A5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is RCRA controlled. Unable to determine from drawings if this pipeline runs underground before terminating at the collection tanks or if it remains inside buildings.
233	2" PL-AR-113809	Carries process waste from PEW Evaporator through Valve Box C38 to VES-WL-133	CPP-604, PEW Evaporators	094276-C4	Collection Tank Vault, VES-WL-133	096156-A5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is RCRA controlled. Unable to determine from drawings if this pipeline runs underground before terminating at the collection tanks or if it remains inside buildings.
234	3" PUA-3022C	Carries process waste from CPP-604 Drains to VES-WL-150	CPP-604 Drains	103589-D8	Collection Tank Vault, VES-WL-150	096156-A4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Unable to determine from drawings if this pipeline runs underground before terminating at the collection tanks or if it remains inside buildings.
235	2" PSA-100587	Carries process waste from Valve Box C38 to P.E.W. Evaporators	DVB-WL-PL-C38, 2" PL-AR-113811 and 113810	096156-D5	CPP-604, P.E.W. Evaporator	094276-A4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is RCRA controlled. Unable to determine from drawings if this pipeline runs underground before terminating at the CPP-604 PEW Evaporator or if it remains inside buildings.
236	2" PUA-1008	Capped inside Valve Box C38 and connects to pipeline 3" PUA-1008 (item 237), Abandoned in place	DVB-WL-PL-C38, Capped	096156-E4	3" PUA-1008 (item 237)	096156-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This capped pipeline connects to 3" PUA-1008 (item 237) which is also capped inside Waste Tank Vault (VES-WL-102). Unable to determine from drawings if this pipeline runs underground before terminating at Valve Box C38 or if it remains inside buildings.

Table C-1. (continued).

237	3" PUA-1008	Capped inside Waste Tank Vault (VES-WL-102) and connects to 2" PUA-1008 (item 236), Abandoned in place	Waste Tank Vault, VES-WL-102	096156-B4	2" PUA-1008 (item 236)	096156-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This capped pipeline connects to 2" PUA-1008 and is capped inside DVB-WL-PL-C38. Unable to determine from drawings if this pipeline runs underground before terminating at Waste Tank Vault or if it remains inside buildings.
238	2" PWL-AR-155149	Carries process waste to and from VES-WL-102 and CPP-604 P.E.W. Evaporator	P.E.W. Evaporators	094276-A4	Waste Tank Vault, VES-WL-102	096156-A4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is RCRA controlled. Unable to determine from drawings if this pipeline runs underground before terminating at the CPP-604 PEW Evaporator or if it remains inside buildings.
239	1 1/2" PL-AR-155553	Carries process waste from Sump SU-WL-153 to VES-WL-150	Sump, SU-WL-153	179008-C8	Waste Tank Vault, VES-WL-150	096156-A5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Unable to determine from drawings if this pipeline runs underground before terminating at the waste tank vault or if it remains inside buildings.
240	4" PWL-1134C	Carries process waste from PEW Evaporator to VES-WL-101 (Waste Tank Vault)	P.E.W. Evaporators	094276-A6	Waste Tank Vault, VES-WL-101	096156-A2	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Unable to determine from drawings if this pipeline runs underground before terminating at the waste tank vault or if it remains inside buildings.
241	2" PLA-101105	Unable to determine origin of pipeline. Referenced drawing does not show pipeline.	Tank Farm Facility, Unknown	057501-F5	Collection Tank Vault, Sump (VES-WL-133)	096156-A6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	There is no pipeline connection as referred by 057501-F5. This may be a drawing mistake.
242	3" PWM-2016Y	Abandoned Line, Capped outside Waste Tank Vault. Original termination point is unknown	Waste Tank Vault, VES-WM-101, Jet-WM-501	057498-A6	Capped and abandoned outside Waste Tank Vault	057498-D5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is capped outside Waste Tank Vault and abandoned in place. Location of abandoned pipe cap is unknown. This pipeline is RCRA controlled. Original termination point is unknown

Table C-1. (continued).

243	3" PU-AR-113540	Carries process waste from Valve Box C30 to Waste Tank Vault (VES-WM-100)	DVB_WM-PW-C30, 1" VGAR-113542 and 2" PU-AR-113540 (item 243)	057499-A4	Waste Tank Vault, VES-WM-100	057498-A5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This is a RCRA controlled pipeline
244	3" PWM-1002Y	Carries process waste from CPP-604 Air Lift Pit to Waste Tank Vault (VES-WM-100)	CPP-604 Air Lift Pit, 1" PUA-1007 and 1" PUA-104840 (item 248)	057498-B4	Waste Tank Vault, VES-WM-100	057498-A5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This is a RCRA controlled pipeline. Unable to determine from drawings if this pipeline runs underground before terminating at the waste tank vault or if it remains inside buildings (CPP-604).
245	2" PUA-104853	Capped outside CPP-604 Air Lift Pit and abandoned in place	Capped and abandoned outside CPP-604 Air Lift Pit, unknown location	057498-A3	3" PUA-104853, Outside CPP-604 Air Lift Pit	057498-B4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Two items with the same pipeline are given to distinguish between the active (item 246) and abandoned (item 245) pipeline sections.
246		Carries process waste from CPP-601, U-Cell to 1 1/2" PWM-10013C (item 258)	CPP-601 U-Cell	091140-C1	1 1/2" PWM-10013C (item 258), Between Valve Box C30 and Waste Tank Vault. Process waste terminates inside Waste Tank Vault, VES-WM-100	057498-A5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Item 245, 2" PUA-104853 is an abandoned pipeline and capped outside CPP-604 Air Lift Pit. Location of cap within the TFF is unknown. This pipeline also connects to 3" PUA-104853 just outside CPP-604 air lift pit. Item 246, 2" PUA-104853 is an active pipeline and carries process waste from CPP-601, U-Cell through Valve Box C31 (PUV-YDA-329, 330), C29 (PUV-YDA-325) and C30 (PUV-WM-328, 336) and terminates at Waste Tank Vault, VES-WM-100. This is a RCRA controlled pipeline.

Table C-1. (continued).

247	2" PUA-1005	Capped outside CPP-604 Air Lift Pit and abandoned in place	CPP-604 Air Lift Pit, PUV-WM-212	057498-B3	Capped and abandoned outside CPP-604 Air Lift Pit	057498-A3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Capped and abandoned in place. Location of abandoned pipe cap is unknown.
248	1" PUA-104840	Abandoned Line, Capped outside CPP-604 Air Lift Pit Original Termination point is unknown.	CPP-604 Air Lift Pit, 1" PUA-1006 and 1" PUA-1007 inside CPP-604 air lift pit	057498-B3	Capped and abandoned outside CPP-604 Air Lift Pit	057498-A3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Capped and abandoned in place. Location of abandoned pipe cap is unknown. Original Termination point is unknown.
249	4" PWM-20024Y	Abandoned Line, Capped outside CPP-739. Original Termination point is unknown.	CPP-739, VGV-WM-74	057498-D3	Capped and abandoned outside CPP-739	057498-A3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Capped and abandoned in place. Location of abandoned pipe cap is unknown. Original Termination point is unknown.
250	1 1/2" PWL-10219C	Abandoned Line, Capped outside CPP-739. Original Termination point is unknown.	CPP-739, RCV-WM-35	057498-D3	Capped and abandoned outside CPP-739	057498-D4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Capped and abandoned in place. Location of abandoned pipe cap is unknown. Original Termination point is unknown.
251	1 1/2" PWL-3009C	Abandoned Line, Capped outside CPP-739. Original Termination point is unknown.	CPP-739, RCV-WM-34	057498-D3	Capped and abandoned outside CPP-739	057498-D4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Capped and abandoned in place. Location of abandoned pipe cap is unknown. Original Termination point is unknown.
252	2" PWM-20021C	Abandoned Line, CPP-739 drain line, capped outside CPP-739. Original Termination point is unknown.	CPP-739, Drain	057498-C4	Capped and abandoned outside CPP-739	057498-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Capped and abandoned in place. Location of abandoned pipe cap is unknown. Original Termination point is unknown.
253	1" PUA-104840	Abandoned Line, Capped outside CPP-739. Original Termination point is unknown.	CPP-739, VES-WM-193	057498-D2	Capped and abandoned outside CPP-739	057498-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Capped and abandoned in place. Location of abandoned pipe cap is unknown. Original Termination point is unknown.
254	1" PUA-104839	Abandoned Line, Capped outside CPP-739. Original Termination point is unknown.	CPP-739, VES-WM-193	057498-D3	Capped and abandoned outside CPP-739	057498-C4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Capped and abandoned in place. Location of abandoned pipe cap is unknown. Original Termination point is unknown.

Table C-1. (continued).

255	2" PUA-1003	Abandoned Line, Capped outside CPP-604 Air Lift Pit. Original Termination point is unknown.	CPP-604 Air Lift Pit, PUV-WM-213	057498-A4	Capped and abandoned outside CPP-604 Air Lift Pit	057498-A4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Capped and abandoned in place. Location of abandoned pipe cap is unknown. Original Termination point is unknown.
256	3" PU-2297Y	Connects to 3" PWM-1002Y (item 244) between Waste Tank Vault and CPP-604 Air Lift Pit	CPP-604 Air Lift Pit, 1" PUA-1008	057498-A4	Waste Tank Vault, 3" PWM-1002Y (item 244)	057498-B4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This is a RCRA controlled pipeline. Unable to determine from drawings if this pipeline runs underground before terminating at pipeline 3" PWM-1002Y (item 244) in the Waste Tank Vault or if it remains inside building (CPP-604 Air Lift Pit).
257	2" PWM-20025C	Capped outside CPP-604, Waste Tank Vault and abandoned in place	CPP-604, Waste Tank Vault	057498-B4	Capped and abandoned outside Waste Tank Vault	057498-B4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Capped outside Waste Tank Vault and abandoned in place. Location of abandoned pipe cap is unknown.
258	1 1/2" PUA-10013C	Carries process waste from 2" PUA-104853 (items 245, 246) to VES-WM-100	2" PUA-104853 (items 245, 246), connection located between Valve Box C30 and Waste Tan Vault	057499-A3 057498-D4	Waste Tank Vault, VES-WM-100	057498-A5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to 2" PUA-104853 (items 245, 246) at an unknown location somewhere between Valve Box C30 and Waste Tank Vault.
259	2" PUA-104854	Carries process waste from CPP-601, Y-Cell to 2" PUA-104853 (items 245, 246)	CPP-601 Y-Cell	091181-C1	DVB-WM-PW-C30, 2" PUA-104853 (items 245, 246)	057499-A4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This line carries process waste from CPP-601, Y-Cell through Valve Box C31 (PUV-YDA-332, 333), C29 and C30 (PUV-WM-327) where it terminates at 2" PUA-104853 (items 245, 246). This is a RCRA controlled pipeline.

Table C-1. (continued).

260	3" PLA-110205	Carries process waste from CPP-601 Deep Tanks to Valve Box C32	CPP-601 Deep Tanks	057005-D1	DVB-WM-PW-C32, HV-WM-38	057499-C5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from CPP-601, Deep Tanks through Valve Box C29 and terminates inside Valve Box C32. This is a RCRA controlled pipeline.
261	3" PLA-110206	Carries process waste from CPP-601, Deep Tanks to Valve Box C32	CPP-601 Deep Tanks	057005-D1	DVB-WM-PW-C32, HV-WM-39	057499-C5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from CPP-601, Deep Tanks through Valve Box C29 (PLV-YDA-21) and terminates inside Valve Box C32. Prior to termination 3" PLA-105559 (item 262) attaches to this pipeline outside Valve Box C32. This is a RCRA controlled pipeline.
262	3" PLA-105559	Carries process waste from Valve Box D2 to 3" PLA-110206 (item 261)	DVB-WM-SW-D2, RCV-WM-191	057499-C5	3" PLA-110206 (item 261)	057499-C5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	3" PLA-105559 attaches to 3" PLA-110206 (item 261) outside Valve Box C32.
263	1 1/2" PWA-1561	Carries process waste from CPP-641, VES-WL-105 Hot Tank to Valve Box C29	CPP-641, VES-WL-105 Hot Tank	111804-B3	DVB-YDA-PW-C29, PUV-YDA-326	057499-A6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from CPP-641, VES-WL-105 through Valve Box C28 and C33 to Valve Box C29.
264	2" PWA-1560	Carries process waste from Valve Box C28 to Valve Box C29	DVB-YDB-PW-C28, PLV-YDB-125	057499-B2	DVB-YDB-PW-C29, PUV-YDA-326	057499-B6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline carries process waste from Valve Box C28 through Valve Box C33 to Valve Box C29

Table C-1. (continued).

265	6" PLA-105556	Carries process waste from Valve Box D1 to CPP-763, VES-WM-191	DVB-WM-SW-D1, SWV-WM-12, 14	057499-D5	CPP-763, VES-WM-191	057499-C7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline T's outside Valve Box D1. The first T end (6" PLA-105556) continues to CPP-783, VES-WM-191. The second T end (3" PLA-105559 (item 262)) continues to Valve Box D2. 3" PLA-105557 (item 266) attaches to 6" PLA-105556 prior to entering CPP-763. Attachment location is unknown.
266	3" PLA-105557	Carries process waste from Valve Box D3 to 6" PLA-105556 (item 265)	DVB-WM-SW-D3, SWV-WM-16, 17	057499-C6	6" PLA-105556 (item 265)	057499-D6	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline attaches to 6" PLA-105556 (item 265) at an unknown location within the TFF between Valve Box D1, D3 and CPP-763.
267	1 1/2" PL-AR-155563	Carries process waste from CPP-604 Waste Treatment Building to Valve Box C32	CPP-604, Waste Treatment Building, West Tank Room	103589-E8	DVB-WM-PW-C32, PLV-WM-247	057499-B4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
268	1 1/2" PL-AR-155565	Carries process waste from CPP-604 Waste Tank Vault to Valve Box C32	CPP-604 Waste Tank Vault, Jet-WL-550	096156-A5	DVB-WM-PW-C32, PLV-WM-246	057499-B4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
269	1 1/2" PLA-776	Abandoned Line, Capped inside CPP-642 Pipeline leads to Valve Box C33. Original origin point is unknown.	CPP-642, Capped and Abandoned in place	093025-C7	DVB-YDA-PL-C33	057499-A3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is capped and abandoned in place. Unable to determine pipeline origin or termination. It is assumed that the pipeline came from CPP-642. Original origin point is unknown.
270	1 1/2" PLA-100397	Abandoned Line, Capped inside CPP-648. Pipeline connects to 1 1/2" PLA-776 (item 269) which leads to Valve Box C33. Original origin point is unknown.	CPP-C48, Capped and Abandoned in place	056612-A4	1 1/2" PLA-776 (item 269)	057499-A3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is capped and abandoned in place. It connects to 1 1/2" PLA-776 (item 269) outside Valve Box C33. Unable to determine location of connection. Original origin point is unknown.

Table C-1. (continued).

271	2" PLA-104803	Carries process waste from CPP-764 to Valve Box C28	CPP-764, PLV-SFE-128	093025-C2	DVB-YDB-PW-C28, PUV-YDB-124	057499-B1	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline begins at CPP-764 and travels through Valve Box C27 (PLV-FE-116) and terminates at Valve Box C28. This is a RCRA controlled pipeline.
272	2" PUV-YDB-217	Carries process waste from CPP-641, WL-104 to Valve Box C28	CPP-641, VES-WL-104 Hot Tank	111804-C1	DVB-YDB-PW-C28, 2" PWA-1560 (item 264)	057499-B2	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
273	2" PL-AR-108760	Carries process waste from CPP-1619 to 2" PLA-104803 (item 271)	CPP-1619, PLV-SAB-3	057499-D1	2" PLA-104803 (item 271)	057499-C3	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste will drain into Valve Box C28.
274	2" PL-AV-8603	Carries process waste from VES-FT-134 to Valve Box C27	CPP-666, VES-FT-134	142709-G7	DVB-SAA-PL-C27, PLV-FE-117	057499-C2	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
275	6" PLA-100164	Carries process waste from CPP-750 to Valve Box D1	CPP-750, FE-YDA-750-1	092475-D3	DVB-WM-SW-D1, SWV-WM-14	057499-D5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Two items with the same pipeline are given to distinguish between the active (item 275) and abandoned (item 276) pipeline sections.
									Item 275, 6" PLA-100164 is an active pipeline and transfers process waste from CPP-750 to Valve Box D1 .
276		Abandoned Line, Capped outside Valve Box D1	DVB-WM-SW-D1, Blind Flange	057499-D5	Capped and abandoned in place outside DVB-WM-SW-D1	057499-D4	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	Item 276, 6" PLA-100164 is an abandoned pipeline. A blind flange is attached to this pipeline inside Valve Box D1. It is also capped outside Valve Box D1. The location of cap within the TFF is unknown.

Table C-1. (continued).

277	1" PUA-8	Abandoned Line, Carried process waste from 1" PWA-21 (item 34) to VES-WM-106	CPP-601, N-Cell, capped and abandoned	091498-D1	PUV-WM-100 adjacent to VES-WM-106	057500-D7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is abandoned in place however it looks as if it can connect to 1" PPA-19 (item 278) via an above grade temporary hose connection if needed.
278	1" PPA-19	Abandoned Line, Capped outside VES-WM-106 at grade level	Above grade cap before PUV-WM-110 adjacent to VES-WM-106	057500-D8	VES-WM-106	057500-D7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is capped and abandoned however it looks as if it can connect from 1" PUA-8 (item 277) to 1" PPA-19 via an above grade temporary hose connection.
279	1" PWA-19	Carries process waste from 1" PUA-8 (item 277) to VES-WM-106	1" PUA-8 (item 277)	091498-D1	VES-WM-106	057500-D7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	
280	1" PWA-15	Carries process waste from 1" PUA-1 and 1" PUA-2 to VES-WM-103	1" PUA-1 1" PUA-2	091498-D1	VES-WM-103	057500-D6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Pipeline 1" PUA-1 connects to 1" PWA-15 before it terminates at VES-WM-103.
281	1" PUA-6	Abandoned Line, Capped above grade next to VES-WM-103 and abandoned in place	1" PUA-5	057500-C6	Above grade cap after PUV WM-102 adjacent to VES-WM-103	057500-D6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is capped and abandoned however it looks as if it can connect to 1" PPA-15 (item 282) via an above grade temporary hose connection.

Table C-1. (continued).

282	1" PPA-15	Carries process waste from 1" PUA-1 to VES-WM-103. Connection located above grade.	Above grade adjacent to VES-WM-103, PUV-WM-101 and 103	057500-D6	VES-WM-103	057500-D6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects to two valves above grade and outside VES-WM-103. The first valve (PUV-WM-101) connects to 1" PUV-1 the second valve (PUV-WM-103) connects to 1" PUA-2 (item 283) which is capped and abandoned.
283	1" PUA-2	Abandoned Line, Capped above grade adjacent to VES-WM-103	Above grade blind flange outside VES-WM-103 unknown location	057500-D6	PUV-WM-103, above grade	057500-D6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This capped and abandoned pipeline looks as if it can connect PUV-WM-102 to PUV-WM-103 via a temporary hose connection.
284	1" PPA-16	Begins above grade at PUV-WM-104 and leads to VES-WM-103.	Blind flange next to PUV-WM-104 located above grade adjacent to VES-WM-103	057500-D6	VES-WM-103	057500-D6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is capped and abandoned in place through pipeline 1" PUA-3 (item 285) which is capped and abandoned in place
285	1" PUA-3	Abandoned Line, Capped above grade adjacent to VES-WM-103 and carried waste to PUV-WM-104.	Above grade blind flange outside VES-WM-103 unknown location	057500-D6	PUV-WM-104, above grade	057500-D6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This above grade pipeline is abandoned in place through a blind flange which leads to 1" PPA-16 through valve PUV-WM-104.
286	(1" PWA-17) 1" PUA-5	Abandoned Line, Carried process waste from CPP-601, N-Cells to above grade blind flange. Original termination point is unknown.	CPP-601, N-Cell	091498-D1	Above grade blind flange adjacent to PUV-WM-109 and VES-WM-105	057500-D2	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This abandoned pipeline connects to 1" PUA-6 (item 281) and 1" PUA-7 (item 287) and runs through valve PUV-WM-105 and 106 before terminating at above grade blind flange adjacent to VES-WM-105. Original termination point is unknown.
287	1" PUA-7	Abandoned Line, Carried process waste from 1" PUA-5 (item 286) to an above grade connection. Original termination point is unknown.	1" PUA-5 (item 286)	057500-C4	Capped and abandoned above grade next to VES-WM-104 by PUV-WM-106 at an unknown location	057500-D4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This above grade pipeline is abandoned in place through a blind flange adjacent to PUV-WM-106. Original termination point is unknown.

Table C-1. (continued).

288	1" PPA-18	Abandoned Line, Carried process waste from an above grade connection to WM-104. Original origin point is unknown.	Blind flange next to PUV-WM-107 located above grade adjacent to VES-WM-104	057500-D4	CPP-717B, VES-WM-104	057500-D4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Although capped, this line appears as if it can connect 1" PUA-7 (item 287) via an above grade temporary hose connection. Original origin point is unknown.
289	1" PPA-17	Abandoned Line, carried process waste from an above grade connection adjacent to VES-WM-105. Original origin point is unknown.	Blind flange next to PUV-WM-109 located above grade adjacent to VES-WM-105	057500-D2	CPP-717C, VES-WM-105	057500-D4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Although capped, this line appears as if it can connect 1" PUA-5 via an above grade temporary hose connection. Original origin point is unknown.
290	1" SWA-104825	Carries sump liquid waste from CPP-717A through D to 3" SWA-104825 (item 291)	CPP-717A, Jet WM-503-4 CPP-717B, Jet WM-504-4 CPP-717C, Jet WM-505-4 CPP-717D, Jet WM-506-4	057500-E8	3" SWA-104825 (item 291), four locations	092471-C1	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline connects all CPP-717A through D sumps to 3" SWA-104825 (item 291). It is interesting to note that 4 separate and distinct pipes leading from 4 different sumps to 3" SWA-104825 (item 291) and are called the same pipe name in Drawing 057500. These pipelines travel through PLV-WM-14, 16, 18 and 20 before terminating.
291	3" SWA-104825	Carries sump liquid from 1" SWA-104825 (item 290) to 4" SWA-104825 (item 292)	Near tank VES-WM-106	057500-E8	Near tank VES-WM-105, Pipe Reducer	057500-E2	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	The reducer location that connects 3" SWA-104825 to 4" SWA-104825 (item 292) is unknown.
292	4" SWA-104825	Carries sump liquid from 3" SWA-104825 (item 291) to 6" SWN-100180 (item 303)	Near tank VES-WM-105, Pipe Reducer	057500-E2	6" SWN-100180 (item 303)	092471-C1	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	Process waste terminates at CPP-754
293	1" PLA-104810	Carries CPP-717D sump liquid to VES-WM-106	1" SWA-104825 (item 290)	057500-D8	VES-WM-106	057500-D7	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This line carries sump liquid through valve PLV-WM-19 before it terminates into VES-WM-106

Table C-1. (continued).

294	1" PLA-104809	Carries CPP-717C sump liquid to VES-WM-106	1" SWA-104825 (item 290)	057500-E6	VES-WM-105	057500-D5	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This line carries sump liquid through valve PLV-WM-17 before it terminates into VES-WM-106
295	1" PLA-104808	Carries CPP-717B sump liquid to VES-WM-106	1" SWA-104825 (item 290)	057500-E4	VES-WM-104	057500-D4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This line carries sump liquid through Valve PLV-WM-15 before it terminates into VES-WM-106
296	1" PLA-104807	Carries CPP-717A sump liquid to VES-WM-106	1" SWA-104825 (item 290)	057500-E2	VES-WM-103	057500-D2	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This line carries sump liquid through Valve PLV-WM-13 before it terminates into VES-WM-106
297	3" PPA-2	Carries process waste from VES-WM-103 to VES-WM-104	VES-WM-103, Jet WM-521	057500-D5	VES-WM-104	057500-D4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is one of two pipelines that transfers process waste from WM-103 to WM-104
298	3" PPA-1	Carries process waste from VES-WM-103 to VES-WM-104	VES-WM-103, Jet WM-511	057500-D5	VES-WM-104	057500-D4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is the second pipeline that transfers process waste from WM-103 to WM-104
299	3" PPA-13	Carries process waste from VES-WM-103 to VES-WM-104	VES-WM-103	057500-D5	VES-WM-104	057500-D4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is an overflow line from WM-103 to WM-104
300	3" PPA-3	Carries process waste from VES-WM-104 to VES-WM-105	VES-WM-104, Jet WM-522	057500-D3	VES-WM-105	057500-D2	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is one of two pipelines that transfers process waste from WM-104 to WM-105
301	3" PPA-4	Carries process waste from VES-WM-104 to VES-WM-105	VES-WM-104, Jet WM-512	057500-D3	VES-WM-105	057500-D2	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is the second pipeline that transfers process waste from WM-103 to WM-104
302	3" PPA-14	Carries process waste from VES-WM-104 to VES-WM-105	VES-WM-103	057500-D5	VES-WM-104	057500-D4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is an overflow line from WM-104 to WM-105

Table C-1. (continued).

303	6" SWN-100180	Carries sump liquid from CPP-717 sumps and other liquid process waste to CPP-754	CPP-634, Floor Drain	056980-E6	CPP-754	092471-C1	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	This pipeline is located somewhere outside CPP-619.
304	4" PWM-18032C	Abandoned Line, carried process waste CPP-604 to an unknown termination point. Original pipe termination point is unknown	CPP-604	377829-C7	Capped and Abandoned	057502-F7	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
305	6" PL-AR-113802	Carries process waste from 3" PL-AR-113806 (item 218), 3" PL-AR-113800 (item 220) and 3" PL-AR-113801 (item 221)	3" PL-AR-113806 (item 218)	096156-B7	DVB-WL-PL-C38	096156-D5	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	3" PL-AR-113800 (item 220) and 3" PL-AR-113801 (item 221) connect to 6" PL-AR-113802 before it terminates inside Valve Box C38. This is a RCRA controlled pipeline
306	1" CT-AR-15427B	3" PUA-610 (item 78) and 3" PUA-609 (item 77) encasement drain line. Carries drain waste to CPP-783 south sump	3" PUA-610 (item 78) and 3" PUA-609 (item 77) encasement drain	057501-C4	CPP-783 south sump	057501-B4	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	
307	¾" PE-AR-151741	Carries process waste from CPP-708 to 3" PLA-10111 (item 226)	CPP-708	368931-D5	3" PLA-10111 (item 226)	096156-A8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	This is a RCRA controlled pipeline
308	½" LA2N-106922	Carries process waste from waste solvent storage system to 1" L12-NN-110602 (item 229)	Waste Solvent Storage System VES-NCE-184	058620-F8	1" L12-NN-110602 (item 229)	096156-B8	Pipe in Pipe	Schedule 40, seamless or welded, 347 SST or 304L SST	
309	½" PUA-642	Carries process waste from 10" VGA-605 to 3" PUA-630 (item 100).	10" VGA-605	057502-F6	3" PUA-630 (item 100).	057502-F6	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST	

Table C-1. (continued).

310	½" PUA-1015	Carries process waste from 10" VGA-1001 to WM-186.	10" VGA-1001	057502-C3	VES-WM-186	057502-C3	Concrete Encased	Schedule 40, seamless or welded, 347 SST or 304L SST
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ⁱ [] Indicate most recent pipeline names

ⁱⁱ { } Indicate pipeline diameter dimension taken from drawings but not used by the author.

Appendix D

Identification Table of Tank Farm Process Waste Pipelines Crossing the Tank Farm Perimeter

Appendix D

Identification Table of Tank Farm Process Waste Pipelines Crossing the Tank Farm Perimeter

The following table was constructed to help identify Tank Farm process waste pipelines that cross the Tank Farm perimeter. For clarity, the table is divided into several descriptive columns. A description of each individual column from left to right is as follows:

Column Number	Column Identifier	Description
1.	Item Number	A unique number given to represent each pipeline within the identification table.
2.	Identification Number	Provides the pipeline names as called out in drawings.
3.	Description	Provides descriptive pipeline use information.
4.	Origin and Termination	Describes the location where each pipe begins and where each line ends. Includes reference drawings.
5.	Reference Drawings	Provides reference drawing numbers followed by grid location.
6.	Secondary Containment	Estimated secondary containment type.
7.	Pipeline Material	Identifies material pipeline was made from.
8.	Pipe Elevation	Describes pipeline origin and termination elevation.
9.	Comments	Discusses additional pipeline information.

Table D-1. Tank Farm pipelines crossing the Tank Farm perimeter.

1	6" SWN 100180	Carries Service Waste from CPP- 606 to CPP-634	CPP-606	055321 E5	CPP-634	500176 E4	Unknown	Carbon Steel	Unknown	4904.4	On drawing 500176 grid E4 the 6" line makes a 90 degree bend into a 4" line. The 4" line extends approximately 15' into building CPP-634. Crosses fence Grid E3 Drawing 55321
2	4" SWA 104825	Carries Service Waste from 12" SWN-100176 to CPP 619	Pipe 12" SWN-100176	055321 D4	CPP-619	500177 F7	Unknown	Schedule 40 Seamless or Welded 304L SST or 347 SST	4909.4	4909.4	Verified origin with TFF Engr. D. Machovec. Crosses fence Grid D3 Drawing 55321
3	2"PU-AR 104853	Carries Process Waste from CPP-601 to 3" PUA 104853 to VES-WM-178	CPP-601	057567 C6	VES-WM-178 from 3" PUA 104853 through DVB-WM-PW-C30	55328 E5	Pipe in Pipe	Schedule 40 Seamless or Welded 304L SST or 347 SST	4904.9	4898.4	Process waste line PU-AR 104853 passes through the C-30 Valve Box. From the valve box the process waste is transferred to tank VES-WM-100. Crosses fence Grid G3 Drawing 55327
4	2"PU-AR 104854	Carries Process Waste from CPP-601 to 2" PUA 104854 to DVB-WM-PW-C30	CPP-601	057567 D6	DVB-WM-PW-C30 into 2" PUA 104853	55328 E5	Pipe in Pipe	Schedule 40 Seamless or Welded 304L or 347 SST	4904.9	4898.8	2" PU-AR also listed as 2" PUA-104854 Process waste lines PU-AR 104854 terminates in the C-30 Valve Box. Pipe PU-AR 104854 connects into PU-AR 104853 (item 3) in the valve box. Crosses fence Grid G3 Drawing 55327.
5	3" PL-AR 110205	Carries Process Waste from CPP-601 to DVB-WM-PL-C32	CPP-601	055327 G6	DVB-WM-PL-C32 into 3" PL-AR 113800	500181 D7	Pipe in Pipe	Schedule 40 Seamless or Welded 304L or 347 SST	4910.1	4900.2	Line terminates in vault C-32 From there the waste exits in different pipes. Crosses fence Grid G3 Drawing 55327
6	3" PL-AR 110206	Carries Process Waste from CPP-601 to DVB-WM-PC-C32	CPP-601	055327 G6	DVB-WM-PL-C32 into 3" PL-AR 113801	500181 D7	Pipe in Pipe	Schedule 40 Seamless or Welded 304L or 347 SST	4910.1	4900.2	Line terminates in vault C-32 From there the waste exits in different pipes. Crosses fence Grid G3 Drawing 55327
7	3"PY- 2401Y	Abandoned Line, Carried Process Waste from CPP-601 to Dead End. Original termination point is unknown.	Cut and Capped Outside CPP-601	057567 D6	Cut & Capped Dead End	55328 E6	Pipe in Pipe	Schedule 40 Seamless or Welded 304L or 347 SST	4902.8	Unknown	Also listed as 3"PWA-2401Y Pipe Cut & Capped Both Ends. Crosses fence Grid F3 Drawing 55327. Original termination point is unknown.
8	3" PU- 2297	Abandoned Line, Carried Process Waste From CPP-601 to Dead End.	Cut and Capped Outside	055327 G6	Cut & Capped Dead End	55328 E6	Pipe in Pipe	Schedule 40 Seamless or Welded 304L or	4903.8	Unknown	Also listed as 3" PWA-2297 Pipe Cut & Capped Both Ends. Crosses fence Grid F3 Drawing 55327. Original

Table D-1. (continued).

		Original termination point is unknown.	CPP-601					347 SST				termination point is unknown.
9	3" PLA-105559	Carries Process Waste from CPP-750 to PL-AR-110206 (item 6)	CPP-750	055327	E5	Pipe PL-AR 110206 (item 6)	55327 G3	Pipe in Pipe	Schedule 40 Seamless or Welded 304L or 347 SST	Unknown	4901.5	Connects to Pipe 3" PL-AR 110206 (item 6). Pipe crosses TFF fence at Grid F3 on drawing 55327
10	6" PLA-100164	Abandoned Line, Carried Process Waste from CPP-750 to Capped Dead End. Original termination point is unknown.	CPP-750	055327	E5	Cut & Capped Dead End	92094 C4	Unknown	Schedule 40 Seamless or Welded 304L or 347 SST	4906.6	4910.7	Crosses Fence at Grid F3 Drawing 55327. The 6" PLA-100164 still carries process waste from CPP-750 to value box DVB-WM-SW-D1. The waste is then diverted to the north in pipe 6" PLA-105556. The 6" PLA-100164 continues on to the east and northeast from the D1 Valve Box. It is abandoned in this section. The D1 vault is located on Drawing 055327-E3.. Original termination point is unknown.
11	3" PLA-1009C	Abandoned Line, Carried Process Waste from CPP-601 to VES-WL-101 & 102. Original termination point is unknown.	CPP-601	056227	G7	Cut and Capped Near Tank VES-WL-101 & 102	500181 E7	Pipe in concrete encasement	Schedule 40 Seamless or Welded 304L or 347 SST	4909.8	4897.0	Crosses Fence at Grid F3 Drawing 55327 Also listed as 3" WB-1009C (item 11). Original termination point is unknown.
12	3" PLA-1019 C	Abandoned Line, Carried Process Waste from CPP-601 to VES-WL-101 & 102. Original termination point is unknown.	CPP-601	056227	G7	Cut and Capped Near VES-WL-101 & 102	500181 E7	Pipe in concrete encasement	Schedule 40 Seamless or Welded 304L or 347 SST	4900.6	4897.0	Crosses Fence at Grid F3 Drawing 55327 Also listed as 3" WB-1019C (item 11). Original termination point is unknown.
13	3" PLA-1004C	Abandoned Line, Carried Process Waste from CPP-601 to VES-WL-101 & 102. Original termination point is unknown.	CPP-601	056227	G7	Cut and Capped Near VES-WL-101 & 102	500181 E7	Pipe in concrete encasement	Schedule 40 Seamless or Welded 304L or 347 SST	4900.6	4897.0	Crosses Fence at Grid F3 Drawing 55327 Also listed as 3" WB-1004C (item 13). Original termination point is unknown.

Table D-1. (continued).

14	10"SWA - 100167	Carries Service Waste from MAH-YDA-SW-143 to CPP-604	MAH-YDA-SW-143	055327 F3	CPP-604	55328 D4	Unknown	Schedule 40 Seamless or Welded 304L or 347 SST	Unknown	4905.8	Crosses Fence at Grid F3 Drawing 55327 10" SW-NH-108585 (item 15) Feeds this line See drawing 161474 & 161477
15	10" SW-NH-108585	Carries Service Waste from CPP-750 to MAH-YDA-SW-143	CPP-750	055327 E5	MAH-YDA-SW-143	55327 F3	Unknown	Polyethylene	Unknown	Unknown	NH is Polyethylene from Appendix M Coding Manual
16	1" PWA - 8	Carries Process Waste from CPP-601 to VES-WM-106	CPP-601	055327 E6	VES-WM-106	55322 E5	Pipe DB w/SST Liner	Schedule 40 Seamless or Welded 304L or 347 SST	Unknown	Unknown	Also labeled PUA-8 (Concrete Duct Bank noted on Drawing 55321) Pipe crosses TFF fence at Grid E3 Drawing 55327
17	1" PWA - 5	Carries Process Waste from CPP-601 to VES-WM-105	CPP-601	055327 E6	VES-WM-105	55322 E6	Pipe Duct Bank w/SST Liner	Schedule 40 Seamless or Welded 304L or 347 SST	Unknown	4898.8	Also labeled PUA-5 Pipe crosses TFF fence at Grid E3 on drawing 55327
18	1" PWA - 4	Carries Process Waste from CPP-601 to VES-WM-106	CPP-601	055327 E6	VES-WM-106	55322 E6	Pipe Duct Bank w/SST Liner	Schedule 40 Seamless or Welded 304L or 347 SST	Unknown	4898.8	Also labeled PUA-4 Pipe crosses TFF fence at Grid E3 on drawing 55327
19	1" PWA - 1	Carries Process Waste from CPP-601 to VES-WM-103	CPP-601	055327 E6	Other Pipe and VES-WM-103	55321 F3	Pipe Duct Bank w/SST Liner	Schedule 40 Seamless or Welded 304L or 347 SST	Unknown	Unknown	Also labeled PUA-1 Pipe crosses TFF fence at Grid E3 on drawing 55327
20	3" PLA-100611	Abandoned Line, Carried Process Waste from DVB-OGF-DG-D8 to PWA 100538 (item 21)	DVB-OGF-DG-D8	055333 F6	Frank Ward - TFF Engr said it Taps into 3" PWA 100538 (item 21)	500183 C5	Pipe in Pipe	Schedule Seamless or Welded 304L or 347 SST	Unknown	Unknown	Pipe labeled 1" PLA-100611 extends south from vault DVG-OGF-DG-D8 and goes to the north and east to DVB-OGF-DG-D5. Acts as a small drain from vault D5 to D8
21	3" PWA 100538	Carries Process Waste from CPP-649 to 3" PWA 100510	CPP-649	055333 G6	3" PWA 100510	500183 F5	Pipe in Pipe	Schedule 40 Seamless or Welded 304L or 347 SST	Unknown	4913.8	3"PWA 100510 terminates in Bldg. 604 - one ft. east of intersection
22	3" PLA 101198	Carries Process Waste from CPP-649 to CPP-604	CPP-649	055333 F6	CPP-604	500183 C5	Pipe in Pipe	Schedule 40 Seamless or Welded 304L or 347 SST	Unknown	Unknown	To floor drain in south off-gas cell in CPP-604

Table D-1. (continued).

23	3"PLA 100593	Carries Process Waste from CPP- 604 to CPP-708	CPP-604	0500182 E7	CPP-708	500182 C5	3" Pipe in 5" Pipe Encasement	Schedule 40 Seamless or Welded 304L or 347 SST	4907.0	4907.0	Crosses TFF Fence Grid D5 Drawing 500182
24	3"PLA- 101111	Abandoned Line, Carried Process Waste from CPP- 633 to DVB-WL- PL-C37. Original origin point is unknown.	Cut & Capped Outside of CPP- 633	055335 E6	DVB-WL-PL- C37	500181 F6	3" Pipe in 5" and 6 " Pipe Encasement	Schedule 40 Seamless or Welded 304L or 347 SST	4903.9	4889.2	Crosses TFF Fence Grid D7 Drawing 500180. Original origin point is unknown.
25	2" PL-AD 102750	Carries Process Waste from CPP- 692 to CPP-659	CPP-692	0500180 E7	CPP-659	500179 E7	2" Pipe in 8" Pipe and Concrete Encasement	Schedule 40 Seamless or Welded 304L or 347 SST	4914.0	Unknown	Crosses TFF Fence Grid E6 Drawing 500180
26	1" PLA 106923	Carries Process Waste from DVB- OGF-PL-D4 to CPP-694	DVB- OGF-PL- D4	0500180 E7	CPP-694	56182 C5	Unknown	Schedule 40 Seamless or Welded 304L or 347 SST	4905.7	Unknown	Crosses TFF Fence Grid E6 Drawing 500180
27	1/2 " OW- AD 104404	Carries Organic Waste (solvent) from CPP-659 to CPP-694	CPP-659	055329 E7	CPP-694	56182 C4	Unknown	Schedule 40 Seamless or Welded 304L or 347 SST	4901.8	Unknown	Crosses TFF Fence Grid E5 Drawing 500180
28	3" PWA 1030	Abandoned Line & Grouted, Carried Process Waste from CPP-633 to DVG- WM-PW-B4. Original origin point is unknown.	Cut and Capped outside of CPP-633	055335 E5	DVB-WM-PW- B4	59837 E3	Pipe in Pile Supported Concrete Trench	Schedule 40 Seamless or Welded 304L or 347 SST	4899.3	Unknown	Pipe goes north from CPP 633 under building CPP 659 to vault B4. Abandoned in place & grouted. Original origin point is unknown.